



025CIP SEQ List ver2.txt
SEQUENCE LISTING

<110> AviGenics, Inc
<120> Production of a Transgenic Avian by Cytoplasmic Injection
<130> AVI-025CIP
<160> 13
<170> PatentIn version 3.2
<210> 1
<211> 6230
<212> DNA
<213> artificial

<400> 1
cattcgccat tcaggctgcg caactgttgg gaagggcgat cgggtgcgggc ctcttcgcta 60
ttacgccagc caatacgcaa accgcctctc cccgcgcggt ggccgattca ttaatgcagg 120
atcgaatccag acatgataag atacattgat gagtttggac aaaccacaac tagaatgcag 180
tgaaaaaaat gctttatttg tgaaatttgt gatgctattg ctttatttgt aaccattata 240
agctgcaata aacaagttaa caacaacaat tgcattcatt ttatgtttca ggttcagggg 300
gaggtgtggg aggtttttta aagcaagtaa aacctctaca aatgtggtat ggctgattat 360
gatcatgaac agactgtgag gactgagggg cctgaaatga gccttgggac tgtgaatcta 420
aaatacacia acaattagaa tcactagctc ctgtgtataa tattttcata aatcatactc 480
agtaagcaaa actctcaagc agcaagcata tgcagctagt ttaacacatt atacacttaa 540
aaattttata ttacacctag agctttaaat ctctgtagggt agtttgtcca attatgtcac 600
accacagaag taaggttcct tcacaaagat cccaagctag cttataatac gactcactat 660
aggagagagag ctatgacgtc gcatgcacgc gtaagcttgg gcccctcgag ggatccgggt 720
gtctcgctac gccgctacgt cttccgtgcc gtcctgggag tcgtcttcgt cgtcgtcggg 780
cggcggcttc gccacgtga tcgaagcgcg cttctcgatg ggcgttcctt gcccctgcc 840
cgtagtcgac ttcgtgacaa cgatcttgtc tacgaagagc ccgacgaaca cgcgcttgtc 900
gtctactgac gcgcgcccc accacgactt agggccggtc gggtcagcgt cggcgtcttc 960
ggggaaccat tggtaaggg gaagcttcgg ggcttcggcg gcttcaagtt cggcaagccg 1020
ctcttcgcc cttgtctgcc ggagcgtcag cgctgcctgt tgcttcgga agtgcttcct 1080
gccaacgggt ccgtcgtacg gcctgccgc gcggtcttcg tacagctctt caaggcggtt 1140
cagggcgctc gcgcgctccg caacaagggt cgccggttcg ccgctcttct caggcgctc 1200
agtgaagctt ccgaagcgtc gggcggcttc ccacagaagc gccaacgtct cttcgtcgcc 1260
ttcggcgtgc ctgatcttgt tgaagatgcg ttccgcaacg aacttgtcga gtgccgcat 1320
gctgacgttg cacgtgcctt cgtgctgccc aggtgcggac gggtcgacca ctttcggcg 1380

025CIP SEQ List ver2.txt

acggcagcgg taagagtcct tgatcgattc ttccccgcgc ttcgaagtca tgacggcgcc	1440
acactcgag tacagcttgt ccatggcgga cagaatggct tgccccggg aaagcccctt	1500
gccgcgcccc ctgccgtcca accacgcctg aagctcatat cactcagcgg gctcgatgat	1560
cgggtccgcaa tcaagctcga ccggccggag cgtgatcggg tcgcgctgaa tgcggtaacc	1620
ctcaatcttc gtggtcggcg tgccgtccgg cttcttcttg tagatcacct cagcggcgaa	1680
gcccgaata cgcggtccc gaaggattcg cataacggtt gccgggtccc aggcgcttga	1740
agcggcttct ttcccaatcg tctcgccccg ggtcggcacg gcgtcagcgt ccatgcgctt	1800
acaaagcccc gtgatgctgc ccgggtgaat ggcggttga ctgccccggt tgaagggaag	1860
gtgtttgtgc gtcttgatct cagccacca ccaccggatt acgtcgggct cgaactcgaa	1920
gggtccggta aggggagtg tgcagtgcgc aagcttggtg atgacgacat tgaccattcg	1980
gccgttgcg gtgatctcct tcgtctccga aacaagctcg aagccgtaag gcgccttccc	2040
gccgacgtac ccgccaatt cgcgctgaag gttcttcgtg tcgagaatct tcgccgactt	2100
cagcgaagat tctttgtgcg acgcgtcgag ccgcataatc aggtgaatca ggtccatgac	2160
gtttccctgc cggaagacgc cttcctgagt ggaaacaatc gtcacgcca gggcgagcaa	2220
ttccgagaca atcggaatcg cgtccatgac cttcaggcgc gagaagcgcg acacgtcata	2280
gacaatgata atgttgagcc gcccggcgcg gcattcggtt aggatgcgtt cgaactccgg	2340
gcgctccgcc gtcccgaacg ccgacgtgcc cggcgcttcg ctgaaatgcc cgacgaacct	2400
gaaccggccc ccgtcgcgct cgacttcgcg ctgaaggctg gccgccttgt cttcgttggc	2460
gctacgctgt gtcgctgggc ttgctgcgct cgaattctcg cgctcgcgcg actgacggtc	2520
gtaagcacc gcgtacgtgt ccaccccggt cacaaccct tgtgtcatgt cggcgaccct	2580
acgactagt agctcgtcga cccgggaatt ccggaccggt acctgcaggc gtaccttcta	2640
tagtgtcacc taaatagctt ttgcaaaag cctaggctag agtccggagg ctggatcggt	2700
cccgggtgt tctatggagg tcaaaacagc gtggatggcg tctccaggcg atctgacggt	2760
tcactaaacg agctctgctt atatagacct cccaccgtac acgcctaccg cccatttgcg	2820
tcaatggggc ggagttgta cgacattttg gaaagtcccg ttgattttgg tgccaaaaca	2880
aactcccat gacgtcaatg ggggtggagac ttggaaatcc ccgtgagtca aaccgctatc	2940
cacgcccatt gatgtactgc caaaaccgca tcaccatggt aatagcgatg actaatacgt	3000
agatgtactg ccaagtagga aagtccata aggtcatgta ctgggcataa tgccaggcgg	3060
gccatttacc gtcattgacg tcaatagggg gcgtacttgg catatgatac acttgatgta	3120
ctgccaagtg ggcagtttac cgtaaatact ccaccattg acgtcaatgg aaagtccta	3180
ttggcgttac tatgggaaca tacgtcatta ttgacgtcaa tgggcggggg tcgttggggc	3240

025CIP SEQ List ver2.txt

gtcagccagg cgggccatth accgtaagtt atgtaacgac ctgcacgatg ctgtttcctg	3300
tgtgaaattg ttatccgctc acaattccac acattatacg agccggaagc tataaagtgt	3360
aaagcctggg gtgcctaatt agtgaaaggg cctcgtatac gcctatthtt ataggttaat	3420
gtcatgataa taatggthtt ttagacgtca ggtggcactt ttcggggaaa tgtgcgcgga	3480
accctattht gthttatthtt ctaaatacat tcaaatatgt atccgctcat gagacaataa	3540
ccctgataaa tgcttcaata atattgaaaa acgcgcgaat tgcaagctct gcattaatga	3600
atcggccaac gcgcggggag aggcggthtt cgtattgggc gctcttccgc ttcctcgtc	3660
actgactcgc tgcgctcggg cgttcggctg cggcgagcgg tatcagctca ctcaaaggcg	3720
gtaatacggg tatccacaga atcaggggat aacgcaggaa agaactgtg agcaaaaggc	3780
cagcaaaagg ccaggaaccg taaaaaggcc gcgttgctgg cgtthttcca taggctccgc	3840
ccccctgacg agcatcacia aaatcgacgc tcaagtcaga ggtggcgaaa cccgacagga	3900
ctataaagat accaggcgtt tccccctgga agctccctcg tgcgctctcc tgttccgacc	3960
ctgccgctta ccggatacct gtccgcctth ctcccttcgg gaagcgtggc gctthtctaa	4020
tgctcacgct gtaggtatct cagttcgggt taggtcgtht gctccaagct gggctgtgtg	4080
cacgaacccc ccgttcagcc cgaccgctgc gccttatccg gtaactatcg tcttgagtcc	4140
aacccggtaa gacacgactt atcgccactg gcagcagcca ctggtaacag gattagcaga	4200
gcgaggtatg taggcgggtg tacagagtht ttgaagtggg ggcctaacta cggctacact	4260
agaaggacag tathtggtat ctgcgctctg ctgaagccag ttaccttcgg aaaaagagth	4320
ggtagctctt gatccggcaa acaaaccacc gctggtagcg gtggtthttt tgtttgcaag	4380
cagcagatta cgcgcagaaa aaaaggatct caagaagatc ctttgatctt ttctacgggg	4440
tctgacgctc agtggaacga aaactcacgt taagggattt tggatcatgcc ataacttcgt	4500
atagcataca ttatacgaag ttatggcatg agattatcaa aaaggatctt cacctagatc	4560
ctthtaaat aaaaatgaag thttaaatca atctaaagta tatatgagta aacttggtct	4620
gacagttacc aatgcttaat cagtgaggca cctatctcag cgatctgtct atthcgttca	4680
tccatagttg cctgactccc cgtcgtgtag ataactacga tacgggaggg ctaccatct	4740
ggccccagtg ctgcaatgat accgcgagac ccacgctcac cggctccaga thtatcagca	4800
ataaaccagc cagccggaag ggccgagcgc agaagtgggt ctgcaactth atccgcctcc	4860
atccagtcta ttaattgttg ccgggaagct agagtaagta gttcgccagt taatagthttg	4920
cgcaacgttg ttgccattgc tacaggcatc gtgggtgtcac gctcgtcgtt tggatggct	4980
tcattcagct ccggttccca acgatcaagg cgagttacat gatcccccatt gttgtgcaaa	5040
aaagcggtha gctccttcgg tcctccgatc gttgtcagaa gtaagttggc cgcagtgtta	5100
tcactcatgg ttatggcagc actgcataat tctcttactg tcatgccatc cgtaagatgc	5160

025CIP SEQ List ver2.txt

ttttctgtga ctggtgagta ctcaaccaag tcattctgag aatagtgtat gcggcgaccg	5220
agttgctctt gcccggcgtc aatacgggat aataccgcgc cacatagcag aactttaaaa	5280
gtgctcatca ttgaaaaacg ttcttcgggg cgaaaactct caaggatctt accgctgttg	5340
agatccagtt cgatgtaacc cactcgtgca cccaactgat cttcagcatc ttttactttc	5400
accagcgttt ctgggtgagc aaaaacagga aggcaaaatg ccgcaaaaaa gggaataagg	5460
gcgacacgga aatgttgaat actcatactc ttcctttttc aatattattg aagcatttat	5520
cagggttatt gtctcatgcc aggggtgggc acacatattt gataccagcg atccctacac	5580
agcacataat tcaatgcgac ttccctctat cgcacatctt agacctttat tctccctcca	5640
gcacacatcg aagctgccga gcaagccgtt ctcaccagtc caagacctgg catgagcgga	5700
tacatatttg aatgtattta gaaaaataaa caaatagggg ttccgcgcac atttccccga	5760
aaagtgccac ctgaaattgt aaacgttaat attttgtaa aattcgcgtt aaatttttgt	5820
taaatcagct ctttttttaa ccaataggcc gaaatcggca aaatccctta taaatcaaaa	5880
gaatagaccg agataggggt gagtggtgtt ccagtttgga acaagagtcc actattaaag	5940
aacgtggact ccaacgtcaa agggcgaaaa accgtctatc agggcgatgg ccctactacgt	6000
gaaccatcac cctaatcaag ttttttgggg tcgaggtgcc gtaaagcact aaatcggaac	6060
cctaaagga gccccgatt tagagcttga cggggaaagc cggcgaacgt ggcgagaaag	6120
gaagggaaga aagcgaaagg agcgggcgct agggcgctgg caagtgtagc ggtcacgctg	6180
cgcgtaacca ccacaccgc cgcgcttaat gcgccgctac agggcgcgctc	6230

<210> 2
 <211> 5982
 <212> DNA
 <213> artificial

<400> 2	
ctctatcgat aggtaccgag ctcttacgcg tgctagccct cgagcaggat ctatacattg	60
aatcaatatt ggcaattagc catattagtc attggttata tagcataaat caatattggc	120
tattggccat tgcatacggt gtatctatat cataatatgt acatttatat tggctcatgt	180
ccaatatgac cgccatgttg acattgatta ttgactagtt attaatagta atcaattacg	240
gggtcattag ttcatagccc atatatggag ttccgcgtta cataacttac ggtaaatggc	300
ccgcctggct gaccgccccaa cgacccccgc ccattgacgt caataatgac gtatgttccc	360
atagtaacgc caatagggac tttccattga cgtcaatggg tggagtattt acggtaaact	420
gcccacttgg cagtacatca agtgtatcat atgccaaagtc cgccccctat tgacgtcaat	480
gacggtaaata ggccccgctg gcattatgcc cagtacatga ccttacggga ctttcctact	540
tggcagtaca tctacgtatt agtcatcgct attaccatgg tgatgcgggtt ttggcagtac	600

025CIP SEQ List ver2.txt

atcaatgggc gtggatagcg gtttgactca cggggatttc caagtctcca ccccatgac	660
gtcaatggga gtttgttttg gcacccaaat caacgggact ttccaaaatg tcgtaacaac	720
tccgccccat tgacgcaaat gggcggtagg cgtgtacggt gggagggtcta tataagcaga	780
gctcgttttag tgaaccgtca gatcgcttg agacgccatc cacgctgttt tgacctccat	840
agaagacacc gggaccgatc cagcctcccc tcgaagctcg actctagggg ctcgagatct	900
gcgatctaag taagcttggc attccggtac tgttggtaaa gccaccatgg aagacgcca	960
aaacataaag aaaggcccgg cgccattcta tccgctggaa gatggaaccg ctggagagca	1020
actgcataag gctatgaaga gatacgccct ggttcctgga acaattgctt ttacagatgc	1080
acatatcgag gtggacatca cttacgctga gtacttcgaa atgtccgttc ggttggcaga	1140
agctatgaaa cgatatgggc tgaatacaaa tcacagaatc gtcgatgca gtgaaaactc	1200
tcttcaattc tttatgccgg tgttgggctg gttatttatc ggagttgcag ttgcgcccgc	1260
gaacgacatt tataatgaac gtgaattgct caacagtatg ggcatttcgc agcctaccgt	1320
ggtgttcgtt tccaaaaagg ggttgcaaaa aattttgaac gtgcaaaaa agctcccaat	1380
catccaaaaa attattatca tggattctaa aacggattac cagggtttc agtcgatgta	1440
cacgttcgtc acatctcatc tacctcccgg ttttaatgaa tacgattttg tgccagagtc	1500
cttcgatagg gacaagacaa ttgactgat catgaactcc tctggatcta ctggtctgcc	1560
taaagggtgtc gctctgcctc atagaactgc ctgctgaga ttctcgcag ccagagatcc	1620
tatttttggc aatcaaatca ttccggatac tgcgatttta agtgttgttc cattccatca	1680
cggttttgga atgtttacta cactcggata tttgatatgt ggatttcgag tcgtcttaat	1740
gtatagattt gaagaagagc tgtttctgag gagccttcag gattacaaga ttcaaagtgc	1800
gctgctggtg ccaaccctat tctccttctt cgccaaaagc actctgattg acaaatacga	1860
tttatctaatt ttacacgaaa ttgcttctgg tggcgtccc ctctctaagg aagtcgggga	1920
agcggttgcc aagagggttc atctgccagg tatcaggcaa ggatatgggc tcaactgagac	1980
tacatcagct attctgatta caccgaggg ggatgataaa ccgggcgcgg tcggtaaagt	2040
tgttccattt tttgaagcga aggttggtga tctggatacc gggaaaacgc tgggcgttaa	2100
tcaaagaggc gaactgtgtg tgagagggtcc tatgattatg tccggttatg taaacaatcc	2160
ggaagcgacc aacgccttga ttgacaagga tggatggcta cattctggag acatagctta	2220
ctgggacgaa gacgaacact tcttcatcgt tgaccgcctg aagtctctga ttaagtacaa	2280
aggctatcag gtggctcccg ctgaattgga atccatcttg ctccaacacc ccaacatctt	2340
cgacgcaggt gtcgcaggtc ttcccgcga tgacgccggt gaacttcccg ccgccgttgt	2400
tgttttggag cacggaaaga cgatgacgga aaaagagatc gtggattacg tcgccagtca	2460

025CIP_SEQ_List_ver2.txt

agtaacaacc gcgaaaaagt tgcgcggagg agttgtgttt gtggacgaag taccgaaagg	2520
tcttaccgga aaactcgacg caagaaaaat cagagagatc ctcataaagg ccaagaagg	2580
cggaaagatc gccgtgtaat tctagagtcg gggcggccgg ccgcttcgag cagacatgat	2640
aagatacatt gatgagtttg gacaaaccac aactagaatg cagtgaaaaa aatgctttat	2700
ttgtgaaatt tgtgatgcta ttgctttatt tgtaaccatt ataagctgca ataaacaagt	2760
taacaacaac aattgcattc attttatgtt tcagggttcag ggggaggtgt gggaggtttt	2820
ttaaagcaag taaaacctct acaaagtgtg taaaatcgat aaggatcaat tcggcttcag	2880
gtaccgtcga cgatgtaggt cacggctctc aagccgcggt gcgggtgccca gggcgtgccc	2940
ttgggctccc cgggcgcgta ctccacctca cccatctggt ccatcatgat gaacgggtcg	3000
aggtggcggt agttgatccc ggcgaaacgc cggcgcaccg ggaagccctc gccctcgaaa	3060
ccgctgggcg cgggtggtcac ggtgagcacg ggacgtgcga cggcgtcggc ggggtgcggat	3120
acgcggggca gcgtcagcgg gttctcgacg gtcacggcgg gcatgtcgac agccgaattg	3180
atccgtcgac cgatgccctt gagagccttc aaccagtcga gctccttcg gtgggcgcgg	3240
ggcatgacta tcgtcgccgc acttatgact gtcttcttta tcatgcaact cgtaggacag	3300
gtgccggcag cgctcttcgg ctctctcgct cactgactcg ctgcgctcgg tcgttcggct	3360
gcggcgagcg gtatcagctc actcaaaggc ggtaatacgg ttatccacag aatcagggga	3420
taacgcagga aagaacatgt gagcaaaaagg ccagcaaaaag gccaggaacc gtaaaaaggc	3480
cgcgttgctg gcgtttttcc ataggctccg cccccctgac gagcatcaca aaaatcgacg	3540
ctcaagtcag aggtggcgaa acccgacagg actataaaga taccaggcgt tttcccctgg	3600
aagctccctc gtgcgctctc ctgttccgac cctgccgctt accggatacc tgtccgcctt	3660
tctcccttcg ggaagcgtgg cgctttctca atgctcacgc tgtaggtatc tcagttcgggt	3720
gtaggtcgtt cgctccaagc tgggctgtgt gcacgaaccc cccgttcagc ccgaccgctg	3780
cgccttatcc ggtaactatc gtcttgagtc caacccggta agacacgact tatcgccact	3840
ggcagcagcc actggttaaca ggattagcag agcgaggatg tagggcgggtg ctacagagtt	3900
cttgaagtgg tggcctaact acggctacac tagaaggaca gtatttggtg tctgcgctct	3960
gctgaagcca gttaccttcg gaaaaagagt tggtagctct tgatccggca aacaaaccac	4020
cgtggtagc ggtgggtttt ttgtttgcaa gcagcagatt acgcgcagaa aaaaaggatc	4080
tcaagaagat cttttgatct tttctacggg gtctgacgct cagtggaaacg aaaactcacg	4140
ttaagggatt ttggtcatga gattatcaaa aaggatcttc acctagatcc ttttaaatta	4200
aaaatgaagt tttaaatcaa tctaaagtat atatgagtaa acttgggtctg acagttacca	4260
atgcttaatc agtgaggcac ctatctcagc gatctgtcta tttcgttcac ccatagttgc	4320
ctgactcccc gtcgtgtaga taactacgat acggggagggc ttaccatctg gccccagtgc	4380

025CIP SEQ List ver2.txt

tgcaatgata cgcgagacc cacgctcacc ggctccagat ttatcagcaa taaaccagcc	4440
agccggaagg gccgagcgca gaagtgggtcc tgcaacttta tccgcctcca tccagtctat	4500
taattgtttgc cgggaagcta gagtaagtag ttcgccagtt aatagtttgc gcaacgttgt	4560
tgccattgct acaggcatcg tgggtgtcacg ctcgtcgttt ggtatggctt cattcagctc	4620
cggttcccaa cgatcaaggc gagttacatg atcccccatg ttgtgcaaaa aagcggttag	4680
ctccttcggt cctccgatcg ttgtcagaag taagttggcc gcagtgttat cactcatggt	4740
tatggcagca ctgcataatt ctcttactgt catgccatcc gtaagatgct tttctgtgac	4800
tgggtgagtac tcaaccaagt cattctgaga atagtgtatg cggcgaccga gttgctcttg	4860
cccggcggtca atacgggata ataccgcgcc acatagcaga actttaaaag tgctcatcat	4920
tggaaaacgt tcttcggggc gaaaactctc aaggatctta ccgctgttga gatccagttc	4980
gatgtaaccc actcgtgcac ccaactgatc ttcagcatct tttactttca ccagcgtttc	5040
tgggtgagca aaaacaggaa ggcaaaaatgc cgcaaaaaag ggaataaggg cgacacggaa	5100
atgttgaata ctcatactct tcctttttca atattattga agcatttatc agggttattg	5160
tctcatgagc ggatacatat ttgaatgtat ttagaaaaat aaacaaatag gggttccgcg	5220
cacatttccc cgaaaagtgc cacctgacgc gccctgtagc ggcgcattaa gcgcggcggg	5280
tgtggtggtt acgcgcagcg tgaccgctac acttgccagc gccctagcgc ccgctccttt	5340
cgctttcttc ccttcctttc tcgccacgtt cgccggcttt ccccgtaag ctctaaatcg	5400
ggggctccct ttaggggtcc gatttagtgc tttacggcac ctcgacccca aaaaacttga	5460
ttagggtgat gggttcacgta gtgggcatc gccctgatag acgggtttttc gccctttgac	5520
gttgaggtcc acgttcttta atagtggact cttgttccaa actggaacaa cactcaaccc	5580
tatctcggtc tattcttttg atttataagg gatthttgccg atttcggcct attgggtaaa	5640
aatgagctg atttaacaaa aatttaacgc gaattttaac aaaatattaa cgtttacaat	5700
ttcccatcgc ccattcaggc tgcgcaactg ttgggaaggg cgatcgggtc gggcctcttc	5760
gctattacgc cagcccaagc taccatgata agtaagtaat attaaggtag gggaggtagt	5820
tggagcggcc gcaataaaaat atctttatct tcattacatc tgtgtgttgg tttttgtgt	5880
gaatcgatag tactaacata cgctctccat caaaacaaaa cgaaacaaaa caaactagca	5940
aaataggctg tccccagtcg aagtgacagg gccagaacat tt	5982

<210> 3
 <211> 5924
 <212> DNA
 <213> artificial

<400> 3	
ctctatcgat aggtaccgag ctcttacgcg tgctagccct cgagcaggat ctatacattg	60

025CIP SEQ List ver2.txt

aatcaatatt ggcaattagc catattagtc attgggtata tagcataaat caatattggc	120
tattggccat tgcatacggt gtatctatat cataatatgt acatttatat tggctcatgt	180
ccaatatgac cgccatggtg acattgatta ttgactagtt attaatagta atcaattacg	240
gggtcattag ttcatagccc atatatggag ttccgcgtta cataacttac ggtaaatggc	300
ccgcctggct gaccgccccaa cgacccccgc ccattgacgt caataatgac gtatgttccc	360
atagtaacgc caatagggac tttccattga cgtcaatggg tggagtattt acggtaaact	420
gcccacttgg cagtacatca agtgtatcat atgccaagtc cgccccctat tgacgtcaat	480
gacggtaaat ggccgcctg gcattatgcc cagtacatga cttacggga ctttcctact	540
tggcagtaca tctacgtatt agtcatcgct attaccatgg tgatgcgggt ttggcagtac	600
atcaatgggc gtggatagcg gtttgactca cggggatttc caagtctcca cccattgac	660
gtcaatggga gtttggtttg gcacaaaaat caacgggact ttccaaaatg tcgtaacaac	720
tccgccccat tgacgcaa at gggcggtagg cgtgtacggg gggagggtcta tataagcaga	780
gctcgtttag tgaaccgtca gatcgctgg agacgccatc cacgctgttt tgacctccat	840
agaagacacc gggaccgatc cagcctcccc tcgaagctcg actctagggg ctcgagatct	900
gcgatctaag taagcttggc attccggtag tgttggtaaa gccaccatgg aagacgcaa	960
aaacataaag aaaggccccg cgccattcta tccgctggaa gatggaaccg ctggagagca	1020
actgcataag gctatgaaga gatacgccct gggtcctgga acaattgctt ttacagatgc	1080
acatatcgag gtggacatca cttacgctga gtacttcgaa atgtccgttc gggtggcaga	1140
agctatgaaa cgatatgggc tgaatacaaa tcacagaatc gtcgtatgca gtgaaaactc	1200
tcttcaattc tttatgccgg tgttggggcg gttatttatc ggagttgcag ttgcgccccg	1260
gaacgacatt tataatgaac gtgaattgct caacagtatg ggcatttcgc agcctaccgt	1320
gggtgttcgt tccaaaaagg ggttgcaaaa aattttgaac gtgcaaaaaa agctcccaat	1380
catccaaaaa attattatca tggattctaa aacggattac cagggatttc agtcgatgta	1440
cacgttcgtc acatctcatc tacctcccgg ttttaatgaa tacgattttg tgccagagtc	1500
cttcgatagg gacaagacaa ttgactgat catgaactcc tctggatcta ctggtctgcc	1560
taaagggtgc gctctgcctc atagaactgc ctgcgtgaga ttctcgcag ccagagatcc	1620
tatttttggc aatcaaatca ttccggatac tgcgatttta agtgttggtc cattccatca	1680
cggttttgga atgtttacta cactcggata tttgatatgt ggatttcgag tcgtcttaat	1740
gtatagattt gaagaagagc tgtttctgag gagccttcag gattacaaga ttcaaagtgc	1800
gctgctggtg ccaaccctat tctccttctt cgccaaaagc actctgattg acaaatacga	1860
tttatcta at ttacacgaaa ttgcttctgg tggcgctccc ctctctaagg aagtcgggga	1920

025CIP SEQ List ver2.txt

agcggttgcc aagagggttcc atctgccagg tatcaggcaa ggatatgggc tcaactgagac	1980
tacatcagct attctgatta cacccgaggg ggatgataaa ccgggcgcgg tcggtaaagt	2040
tgttccattt ttgaaagcga aggttgtgga tctggatacc gggaaaacgc tgggcgttaa	2100
tcaaagaggc gaactgtgtg tgagagggtcc tatgattatg tccggttatg taaacaatcc	2160
ggaagcgacc aacgccttga ttgacaagga tggatggcta cattctggag acatagctta	2220
ctgggacgaa gacgaacact tcttcacgtg tgaccgcctg aagtctctga ttaagtacaa	2280
aggctatcag gtggctcccg ctgaattgga atccatcttg ctccaacacc ccaacatctt	2340
cgacgcaggt gtcgcaggtc ttcccgcga tgacgccggg gaacttcccg ccgccgttgt	2400
tgttttggag cacggaaaga cgatgacgga aaaagagatc gtggattacg tcgccagtca	2460
agtaacaacc gcgaaaaagt tgcgcggagg agttgtgttt gtggacgaag taccgaaagg	2520
tcttaccgga aaactcgacg caagaaaaat cagagagatc ctcataaagg ccaagaaggg	2580
cggaaagatc gccgtgtaat tctagagtcg gggcggccgg ccgcttcgag cagacatgat	2640
aagatacatt gatgagtttg gacaaaccac aactagaatg cagtgaaaaa aatgctttat	2700
ttgtgaaatt tgtgatgcta ttgctttatt tgtaaccatt ataagctgca ataaacaagt	2760
taacaacaac aattgcattc attttatgtt tcaggttcag ggggaggtgt gggaggtttt	2820
ttaaagcaag taaaacctct acaaattgtg taaaatcgat aaggatcaat tcggcttcga	2880
ctagtactga cggacacacc gaagccccgg cggaaccct cagcggatgc cccggggcct	2940
cacgttttcc caggtcagaa gcggttttcg ggagtagtgc cccaactggg gtaacctttg	3000
agttctctca gttggggcg tagggtcgcc gacatgacac aaggggttgt gaccggggtg	3060
gacacgtacg cgggtgctta cgaccgtcag tcgcgcgagc gcgactagta caagccgaat	3120
tgatccgtcg accgatgccc ttgagagcct tcaaccaggt cagctccttc cgggtggcgc	3180
ggggcatgac tatcgtcgcc gcacttatga ctgtcttctt tatcatgcaa ctcgtaggac	3240
aggtgccggc agcgtcttct cgcttcctcg ctcaactgact cgctgcgctc ggtcggttcgg	3300
ctgcggcgag cggatatcagc tcaactcaaag gcggttaatac ggttatccac agaatacagg	3360
gataacgcag gaaagaacat gtgagcaaaa ggccagcaaa aggccaggaa ccgtaaaaag	3420
gccgcgttgc tggcggtttt ccataaggctc cgccccctg acgagcatca caaaaatcga	3480
cgctcaagtc agagggtggcg aaacccgaca ggactataaa gataaccaggc gtttccccct	3540
ggaagctccc tcgtgcgctc tcctgttccg accctgccgc ttaccggata cctgtccgcc	3600
tttctccctt cgggaagcgt ggcgctttct caatgctcac gctgtaggta tctcagttcg	3660
gtgtaggtcg ttcgctccaa gctgggctgt gtgcacgaac cccccgttca gcccgaccgc	3720
tgcgcttat ccggtaaacta tcgtcttgag tccaacccgg taagacacga cttatcgcca	3780
ctggcagcag ccaactggtaa caggattagc agagcgaggt atgtaggcgg tgctacagag	3840

025CIP SEQ List ver2.txt

ttcttgaagt ggtggcctaa ctacggctac actagaagga cagtatttgg tatctgcgct	3900
ctgctgaagc cagttacctt cggaaaaaga gttggtagct cttgatccgg caaacaacc	3960
accgctggta gcggtggttt ttttgtttgc aagcagcaga ttacgcgcag aaaaaaagga	4020
tctcaagaag atcctttgat cttttctacg ggggtctgacg ctacgtggaa cgaaaactca	4080
cgtaagga ttttggtcat gagattatca aaaaggatct tcacctagat ctttttaa	4140
taaaaatgaa gttttaaatc aatctaaagt atatatgagt aaacttggtc tgacagtta	4200
caatgcttaa tcagtgaggc acctatctca gcgatctgtc tatttcgttc atccatagtt	4260
gcctgactcc ccgctcgtgta gataactacg atacgggagg gcttaccatc tggccccagt	4320
gctgcaatga taccgcgaga cccacgctca ccggctccag atttatcagc aataaaccag	4380
ccagccggaa gggccgagcg cagaagtggc cctgcaactt tatccgcctc catccagtct	4440
attaattggt gccgggaagc tagagtaagt agttcgccag ttaatagttt gcgcaacg	4500
gttgccattg ctacaggcac cgtggtgtca cgctcgtcgt ttggtatggc ttcattcagc	4560
tccggttccc aacgatcaag gcgagttaca tgatcccca tgttgtgcaa aaaagcgg	4620
agctccttcg gtcctccgat cgttgtcaga agtaagttgg ccgcagtgtt atcactcatg	4680
gttatggcag cactgcataa ttctcttact gtcattgccat ccgtaagatg cttttctgtg	4740
actggtgagt actcaaccaa gtcattctga gaatagtgtg tgcggcgacc gagttgctct	4800
tgcccgcggt caatacggga taataccgcg ccacatagca gaactttaaa agtgctcatc	4860
attggaaaac gttcttcggg gcgaaaactc tcaaggatct taccgctgtt gagatccagt	4920
tcgatgtaac ccactcgtgc acccaactga tcttcagcat cttttacttt caccagcgtt	4980
tctgggtgag caaaaacagg aaggcaaaat gccgcaaaa aggggaataag ggcgacacgg	5040
aaatgttgaa tactcatact cttccttttt caatattatt gaagcattta tcagggttat	5100
tgtctcatga gcggatacat atttgaatgt atttagaaaa ataaacaaat aggggttccg	5160
cgcacatttc cccgaaaagt gccacctgac gcgccctgta gcggcgcat aagcgcggcg	5220
gggtgtggtg ttacgcgcag cgtgaccgct acacttgcca gcgccctagc gcccgtcct	5280
ttcgctttct tcccttcctt tctcgccacg ttcgccggct ttccccgtca agctctaaat	5340
cgggggctcc ctttagggtt ccgatttagt gctttacggc acctcgacct caaaaaactt	5400
gattaggggtg atggttcacg tagtgggcca tcgccctgat agacggtttt tcgccctttg	5460
acgttgaggt ccacgttctt taatagtggc ctcttggtcc aaactggaac aacactcaac	5520
cctatctcgg tctattcttt tgatttataa gggattttgc cgatttcggc ctattgggtta	5580
aaaaatgagc tgatttaaca aaaatttaac gcgaatttta acaaaatatt aacgtttaca	5640
atttccatt cgccattcag gctgcgcaac tgttgggaag ggcgatcggg gcgggcctct	5700

025CIP SEQ List ver2.txt

tcgctattac gccagcccaa gctaccatga taagtaagta atattaaggt acgggaggtg	5760
cttggagcgg ccgcaataaa atatctttat tttcattaca tctgtgtgtt ggttttttgt	5820
gtgaatcgat agtactaaca tacgctctcc atcaaaacaa aacgaaacaa aacaaactag	5880
caaaataggc tgtccccagt gcaagtgcag gtgccagaac attt	5924

<210> 4
 <211> 5101
 <212> DNA
 <213> artificial

<400> 4	
ctagagtcgg ggcggccggc cgcttcgagc agacatgata agatacattg atgagtttgg	60
acaaaccaca actagaatgc agtgaaaaaa atgctttatt tgtgaaattt gtgatgctat	120
tgctttattht gtaaccatta taagctgcaa taaacaagtt aacaacaaca attgcattca	180
ttttatgttt cagggttcagg gggaggtgtg ggaggttttt taaagcaagt aaaacctcta	240
caaattgtgg aaatcgata aggatcaatt cggcttcagg taccgtcgac gatgtaggtc	300
acggtctcga agccgcggtg cgggtgccag ggcgtgccct tgggctcccc gggcgcgtag	360
tccacctcac ccattctggtc catcatgatg aacgggtcga ggtggcggtg gttgatcccc	420
gcgaacgcgc ggcgcaccgg gaagccctcg ccctcgaaac cgctgggcgc ggtggtcacg	480
gtgagcacgg gacgtgcgac ggcgtcggtg ggtgcggata cgcggggcag cgtcagcggg	540
ttctcgacgg tcacggcggg catgtcgaca gccgaattga tccgtcgacc gatgcccttg	600
agagccttca acccagtcag ctctttccgg tgggcgcggg gcatgactat cgtcgccgca	660
cttatgactg tcttctttat catgcaactc gtaggacagg tgccggcagc gctcttccgc	720
ttcctcgctc actgactcgc tgcgtcgggt cgcttcggctg cggcgagcgg tatcagctca	780
ctcaaaggcg gtaatacggg tatccacaga atcaggggat aacgcaggaa agaacatgtg	840
agcaaaaggc cagcaaaagg ccaggaaccg taaaaaggcc gcgttgctgg cgtttttcca	900
taggctccgc cccctgacg agcatcaca aaatcgacgc tcaagtcaga ggtggcgaaa	960
cccgcagga ctataaagat accaggcggt tccccctgga agctccctcg tgcgctctcc	1020
tggtccgacc ctgccgctta ccggatacct gtccgccttt ctcccttcgg gaagcgtggc	1080
gctttctcaa tgctcacgct gtaggtatct cagttcggtg taggtcgttc gctccaagct	1140
gggctgtgtg cacgaacccc ccgttcagcc cgaccgctgc gccttatccg gtaactatcg	1200
tcttgagtcc aaccgggtaa gacacgactt atcgccactg gcagcagcca ctggtaacag	1260
gattagcaga gcgaggtatg taggcggtgc tacagagttc ttgaagtggg ggcctaacta	1320
cggctacact agaaggacag tatttggtat ctgcgctctg ctgaagccag ttaccttcgg	1380
aaaaagagtt ggtagctctt gatccggcaa acaaaccacc gctggtagcg gtggtttttt	1440

025CIP SEQ List ver2.txt

tgtttgcaag cagcagatta cgcgcagaaa aaaaggatct caagaagatc ctttgatctt	1500
ttctacgggg tctgacgctc agtggaaacga aaactcacgt taagggattt tggatcatgag	1560
attatcaaaa aggatcttca cctagatcct tttaaattaa aaatgaagtt ttaaataaat	1620
ctaaagtata tatgagtaaa cttggtctga cagttaccaaa tgcttaataca gtgaggcacc	1680
tatctcagcg atctgtctat ttcgttcacat catagttgcc tgactccccg tcgtgtagat	1740
aactacgata cgggagggtt taccatctgg cccagtgct gcaatgatac cgcgagaccc	1800
acgctcaccg gctccagatt tatcagcaat aaaccagcca gccggaaggc ccgagcgcag	1860
aagtggctct gcaactttat ccgcctccat ccagtctatt aattgttgcc ggggaagctag	1920
agtaagtagt tcgccagtta atagtttgcg caacgttggt gccattgcta caggcatcgt	1980
ggtgtcacgc tcgtcgtttg gtatggcttc attcagctcc ggttcccaac gatcaaggcg	2040
agttacatga tccccatgt tgtgcaaaaa agcggttagc tccttcggtc ctccgatcgt	2100
tgtcagaagt aagttggccg cagtgttatc actcatgggt atggcagcac tgcataattc	2160
tcttactgtc atgccatccg taagatgctt ttctgtgact ggtgagtact caaccaagtc	2220
attctgagaa tagtgtatgc ggcgaccgag ttgctcttgc ccggcgtcaa tacgggataa	2280
taccgcgcca catagcagaa ctttaaaagt gctcatcatt ggaaaacgtt cttcggggcg	2340
aaaactctca aggatcttac cgctgttgag atccagttcg atgtaacca ctcgtgcacc	2400
caactgatct tcagcatctt ttactttcac cagcgtttct gggtagcaa aaacaggaag	2460
gcaaaatgcc gcaaaaaagg gaataagggc gacacggaaa tgttgaatac tcatactctt	2520
cctttttcaa tattattgaa gcatttatca gggttattgt ctcagtagcg gatacatatt	2580
tgaatgtatt tagaaaaata aacaaatagg ggttccgcgc acatttcccc gaaaagtgcc	2640
acctgacgcg ccctgtagcg gcgcattaaag cgcggcgggt gtgggtggtta cgcgcagcgt	2700
gaccgctaca cttgccagcg ccctagcgcc cgctcctttc gctttcttcc cttcctttct	2760
cgccacgttc gccggctttc cccgtcaagc tctaaatcgg gggctccctt tagggttccg	2820
atttagtgct ttacggcacc tcgaccccaa aaaacttgat tagggtagtg gttcacgtag	2880
tgggccatcg ccctgataga cggtttttcg ccctttgacg ttggagtcca cgttctttaa	2940
tagtggactc ttgttccaaa ctggaacaac actcaaccct atctcggctt attcttttga	3000
tttataaggg attttgccga tttcggccta ttgggttaaaa aatgagctga ttttaacaaa	3060
atttaacgcg aattttaaca aaatattaac gtttacaatt tccattcgc cattcaggct	3120
gcgcaactgt tgggaagggc gatcgggtcg ggcctcttcg ctattacgcc agcccaagct	3180
accatgataa gtaagtaata ttaaggtagc ggaggtactt ggagcggccg caataaaata	3240
tctttatctt cattacatct gtgtgttggt tttttgtgtg aatcgatagt actaacatac	3300
gctctccatc aaaacaaaac gaaacaaaac aaactagcaa aataggctgt cccagtgca	3360

025CIP SEQ List ver2.txt

agtgcaggtg ccagaacatt tctctatcga taggtaccga gctcttacgc gtgctagccc	3420
tcgagcagga tctatacatt gaatcaatat tggcaattag ccatattagt cattgggttat	3480
atagcataaa tcaatattgg ctattggcca ttgcatacgt tgtatctata tcataatatg	3540
tacatttata ttggctcatg tccaatatga ccgccatggt gacattgatt attgactagt	3600
tattaatagt aatcaattac ggggtcatta gttcatagcc catatatgga gttccgcgtt	3660
acataactta cggtaaattg cccgcctggc tgaccgcca acgacccccg cccattgacg	3720
tcaataatga cgtatgttcc catagtaacg ccaataggga ctttccattg acgtcaatgg	3780
gtggagtatt tacggtaaac tgcccacttg gcagtacatc aagtgtatca tatgccaaagt	3840
ccgcccccta ttgacgtcaa tgacggtaaa tggcccgctt ggcattatgc ccagtacatg	3900
accttacggg actttcctac ttggcagtac atctacgtat tagtcatcgc tattaccatg	3960
gtgatgcggt tttggcagta catcaatggg cgtggatagc ggtttgactc acggggattt	4020
ccaagtctcc accccattga cgtcaatggg agtttgttt ggcacaaaaa tcaacgggac	4080
tttccaaaat gtcgtaacaa ctccgcccc ttgacgcaa tgggcggtag gcgtgtacgg	4140
tgggaggtct atataagcag agctcgttta gtgaaccgtc agatcgctg gagacgcat	4200
ccacgctggt ttgacctca tagaagacac cgggaccgat ccagcctccc ctggaagctc	4260
gactctaggg gctcgagatc tgcgatctaa gtaagcttgc atgcctgcag gtcggccgcc	4320
acgaccggtg ccgccaccat cccctgacct acgcccctga cccctcaca ggagacgacc	4380
ttccatgacc gagtacaagc ccacggtgcg cctcgccacc cgcgacgacg tccccgggc	4440
cgtacgcacc ctgcccgcg cgttcgccga ctaccccgcc acgcgccaca ccgtcgaccc	4500
ggaccgccac atcgagcggg tcaccgagct gcaagaactc ttcctcacgc gcgtcgggct	4560
cgacatcggc aagggtgtggg tcgcggacga cggcgccgcg gtggcgggtct ggaccacgcc	4620
ggagagcgtc gaagcggggg cgggtgttcgc cgagatcggc ccgcgcatgg ccgagttgag	4680
cggttcccgg ctggccgcgc agcaacagat ggaaggctc ctggcgccgc accggcccaa	4740
ggagcccgcg tggttcctgg ccaccgtcgg cgtctcgccc gaccaccagg gcaagggtct	4800
gggcagcgcc gtcgtgctcc ccggagtgga ggcggccgag cgcgccccgg tgcccgcctt	4860
cctggagacc tccgcgcccc gcaacctccc cttctacgag cggctcggct tcaccgtcac	4920
cgccgacgtc gaggtgcccc aaggaccgcg cacctggtgc atgacccgca agcccgggtgc	4980
ctgacgcccc cccacgacc cgcagcgccc gaccgaaagg agcgcacgac cccatggctc	5040
cgaccgaagc cgacccgggc ggccccgcg accccgcacc cgccccgag gccaccgac	5100
t	5101

025CIP SEQ List ver2.txt

<211> 5043
 <212> DNA
 <213> artificial

<400> 5
 ctagagtcgg ggcggccggc cgcttcgagc agacatgata agatacattg atgagtttgg 60
 acaaaccaca actagaatgc agtgaaaaaa atgctttatt tgtgaaattt gtgatgctat 120
 tgctttattt gtaaccatta taagctgcaa taaacaagtt aacaacaaca attgcattca 180
 ttttatgttt caggttcagg gggagggtgtg ggagggtttt taaagcaagt aaaacctcta 240
 caaatgtggt aaaatcgata aggatcaatt cggttcgac tagtactgac ggacacaccg 300
 aagccccggc ggcaaccctc agcggatgcc ccggggcttc acgttttccc aggtcagaag 360
 cggttttcgg gagtagtgcc ccaactgggg taacctttga gttctctcag ttgggggcgt 420
 agggtcgccg acatgacaca aggggttgtg accggggttg acacgtacgc gggtgcttac 480
 gaccgtcagt cgcgcgagcg cgactagtag aagccgaatt gatccgtcga ccgatgccct 540
 tgagagcctt caaccagtc agctccttcc ggtgggcgcg gggcatgact atcgtcgccg 600
 cacttatgac tgtcttcttt atcatgcaac tcgtaggaca ggtgccggca gcgctcttcc 660
 gcttcctcgc tctactgact gctgcgctcg gtcgttcggc tgcggcgagc ggtatcagct 720
 cactcaaagg cggtaatagc gttatccaca gaatcagggg ataacgcagg aaagaacatg 780
 tgagcaaaag gccagcaaaa ggccaggaaac cgtaaaaagg ccgcgttgct ggcgtttttc 840
 cataggctcc gccccctga cgagcatcac aaaaatcgac gctcaagtca gaggtggcga 900
 aacccgacag gactataaag ataccaggcg tttccccctg gaagctccct cgtgcgctct 960
 cctgttccga ccctgccgct taccggatac ctgtccgcct ttctcccttc gggaagcgtg 1020
 gcgctttctc aatgctcacg ctgtaggtat cttagttcgg ttaggtcgt tcgctccaag 1080
 ctgggctgtg tgcacgaacc ccccgttcag cccgaccgct gcgccttatt cggttaactat 1140
 cgtcttgagt ccaaccgggt aagacacgac ttatcgccac tggcagcagc cactggtaac 1200
 aggattagca gagcgaggta tgtaggcggg gctacagagt tcttgaagtg gtggcctaac 1260
 tacggctaca ctagaaggac agtatgttgt atctgcgctc tgctgaagcc agttaccttc 1320
 ggaaaaagag ttggtagctc ttgatccggc aaacaaacca ccgctggtag cgggtggtttt 1380
 tttgtttgca agcagcagat tacgcgcaga aaaaaggat ctcaagaaga tcctttgatc 1440
 ttttctacgg ggtctgacgc tcagtggaaac gaaaactcac gttaagggat tttggtcatg 1500
 agattatcaa aaaggatctt cacctagatc cttttaaatt aaaaatgaag ttttaaatac 1560
 atctaaagta tatatgagta aacttggtct gacagttacc aatgcttaat cagtgaggca 1620
 cctatctcag cgatctgtct atttcgttca tccatagttg cctgactccc cgtcgtgtag 1680
 ataactacga tacgggaggg cttaccatct ggccccagtg ctgcaatgat accgcgagac 1740

025CIP SEQ List ver2.txt

ccacgctcac	cggctccaga	tttatcagca	ataaaccagc	cagccggaag	ggccgagcgc	1800
agaagtgggtc	ctgcaacttt	atccgcctcc	atccagtcta	ttaattgttg	ccgggaagct	1860
agagtaagta	gttcgccagt	taatagtttg	cgcaacgttg	ttgccattgc	tacaggcatc	1920
gtggtgtcac	gctcgtcgtt	tggtatggct	tcattcagct	ccggttccca	acgatcaagg	1980
cgagttacat	gatccccc	gttgtgcaaa	aaagcgggta	gctccttcgg	tcctccgatac	2040
gttgtcagaa	gtaagtggc	cgcagtgtta	tcactcatgg	ttatggcagc	actgcataat	2100
tctcttactg	tcatgccatc	cgtaagatgc	ttttctgtga	ctggtgagta	ctcaaccaag	2160
tcattctgag	aatagtgtat	gcggcgaccg	agttgtcttt	gcccggcgctc	aatacgggat	2220
aataccgcgc	cacatagcag	aactttaaaa	gtgctcatca	ttggaaaacg	ttcttcgggg	2280
cgaaaactct	caaggatctt	accgctgttg	agatccagtt	cgatgtaacc	cactcgtgca	2340
cccaactgat	cttcagcatc	ttttactttc	accagcggtt	ctgggtgagc	aaaaacagga	2400
aggcaaaatg	ccgcaaaaaa	gggaataagg	gcgacacgga	aatgttgaat	actcatactc	2460
ttcctttttc	aatattattg	aagcatttat	cagggttatt	gtctcatgag	cggatacata	2520
tttgaatgta	tttagaaaaa	taaacaaata	ggggttccgc	gcacatttcc	ccgaaaagtg	2580
ccacctgacg	cgccctgtag	cggcgcatta	agcgcggcgg	gtgtgggtgg	tacgcgcagc	2640
gtgaccgcta	cacttgccag	cgccctagcg	cccgtctctt	tcgctttctt	cccttccttt	2700
ctcgccacgt	tcgcccggctt	tccccgtcaa	gctctaaatc	gggggctccc	tttaggggttc	2760
cgatttagtg	ctttacggca	cctcgacccc	aaaaaacttg	attaggggtga	tggttcacgt	2820
agtgggcat	cgccctgata	gacggttttt	cgccctttga	cgttggagtc	cacgttcttt	2880
aatagtggac	tcttgttcca	aactggaaca	acactcaacc	ctatctcggg	ctattctttt	2940
gatttataag	ggattttgcc	gatttcggcc	tattgggttaa	aaaatgagct	gatttaacaa	3000
aaatttaacg	cgaattttta	caaaatatta	acgtttacaa	tttccattc	gccattcagg	3060
ctgcgcaact	gttgggaagg	gcgatcgggtg	cgggcctctt	cgctattacg	ccagcccaag	3120
ctaccatgat	aagtaagtaa	tattaaggta	cgggaggtac	ttggagcggc	cgcaataaaa	3180
tatctttatt	ttcattacat	ctgtgtgttg	gttttttgtg	tgaatcgata	gtactaacat	3240
acgctctcca	tcaaaacaaa	acgaaacaaa	acaaactagc	aaaataggct	gtccccagtg	3300
caagtgcagg	tgccagaaca	tttctctatc	gataggtacc	gagctcttac	gcgtgctagc	3360
cctcgagcag	gatctataca	ttgaatcaat	attggcaatt	agccatatta	gtcattgggtt	3420
atatagcata	aatcaatatt	ggctattggc	cattgcatac	gttgtatcta	tatcataata	3480
tgtacattta	tattggctca	tgtccaatat	gaccgccatg	ttgacattga	ttattgacta	3540
gttattaata	gtaatcaatt	acgggggtcat	tagttcatag	cccatatatg	gagttccgcg	3600
ttacataact	tacggtaa	ggcccgctg	gctgaccgcc	caacgacccc	cgccattga	3660

025CIP SEQ List ver2.txt

cgtcaataat gacgtatggt cccatagtaa cgccaatagg gactttccat tgacgtcaat	3720
gggtggagta ttacggtaa actgcccact tggcagtaca tcaagtgtat catatgccaa	3780
gtccgcccc tattgacgtc aatgacggta aatggcccgc ctggcattat gcccagtaca	3840
tgaccttacg ggactttcct acttggcagt acatctacgt attagtcacg gctattacca	3900
tggatgatgcg gttttggcag tacatcaatg ggcgtggata gcggtttgac tcacggggat	3960
ttccaagtct ccacccatt gacgtcaatg ggagtttgtt ttggcaccaa aatcaacggg	4020
actttccaaa atgtcgtaac aactccgccc cattgacgca aatgggagggt aggcgtgtac	4080
gggtggagggt ctatataagc agagctcggt tagtgaaccg tcagatcgcc tggagacgcc	4140
atccacgctg ttttgacctc catagaagac accgggaccg atccagcctc ccctcgaagc	4200
tcgactctag gggctcgaga tctgcgatct aagtaagctt gcatgcctgc aggtcggccg	4260
ccacgaccgg tgccgccacc atcccctgac ccacgcccct gacccctcac aaggagacga	4320
ccttccatga ccgagtacaa gcccacggtg cgccctcgca cccgcgacga cgtcccccg	4380
gccgtacgca ccctcgccgc cgcgttcgcc gactaccccg ccacgcgcca caccgtcgac	4440
ccggaccgcc acatcgagcg ggtcaccgag ctgcaagaac tcttcctcac gcgcgtcggg	4500
ctcgacatcg gcaaggtgtg ggtcgcggac gacggcgccg cgggtggcgggt ctggaccacg	4560
ccggagagcg tcgaagcggg ggcggtgttc gccgagatcg gcccgcgcat ggccgagttg	4620
agcggttccc ggctggccgc gcagcaacag atggaaggcc tcctggcgcc gcaccggccc	4680
aaggagcccc cgtggttcct ggccaccgtc ggcgtctcgc ccgaccacca gggcaagggt	4740
ctgggcagcg ccgtcgtgct ccccgagtg gaggcggccg agcgcgcccg ggtgcccgcc	4800
ttcctggaga cctccgcgcc ccgcaacctc cccttctacg agcggctcgg cttcaccgtc	4860
accgccgacg tcgaggtgcc cgaaggaccg cgcacctggt gcatgaccgg caagcccgggt	4920
gcctgacgcc cgccccacga cccgcagcgc ccgaccgaaa ggagcgcacg accccatggc	4980
tccgaccgaa gccgaccggg gcggccccgc cgaccccgca cccgcccccg agggccaccg	5040
act	5043

<210> 6
 <211> 5041
 <212> DNA
 <213> artificial

<400> 6	
ctagagtcgg ggcggccggc cgcttcgagc agacatgata agatacattg atgagtttgg	60
acaaaccaca actagaatgc agtgaaaaaa atgctttatt tgtgaaattt gtgatgctat	120
tgctttattt gtaaccatta taagctgcaa taaacaagtt aacaacaaca attgcattca	180
ttttatgttt cagggttcagg gggagggtgtg ggaggttttt taaagcaagt aaaacctcta	240

025CIP SEQ List ver2.txt

caaatgtggt	aaaatcgata	aggatcaatt	cggcttcagg	taccgtcgac	gatgtaggtc	300
acggtctcga	agccgcggtg	cgggtgccag	ggcgtgccct	tgggctcccc	gggcgcgtac	360
tccacctcac	ccatctggtc	catcatgatg	aacgggtcga	ggtggcggtg	gttgatcccc	420
gcgaacgcgc	ggcgcaccgg	gaagccctcg	ccctcgaaac	cgctgggcgc	ggtggtcacg	480
gtgagcacgg	gacgtgcgac	ggcgtcggcg	ggtgcggata	cgcggggcag	cgtcagcggg	540
ttctcgacgg	tcacggcggg	catgtcgaca	gccgaattga	tccgtcgacc	gatgcccttg	600
agagccttca	acccagtcag	ctccctccgg	tgggcgcggg	gcatgactat	cgtcgccgca	660
cttatgactg	tcttctttat	catgcaactc	gtaggacagg	tgccggcagc	gctcttccgc	720
ttcctcgctc	actgactcgc	tgcgctcggg	cgttcggctg	cggcgagcgg	tatcagctca	780
ctcaaaggcg	gtaatacggg	tatccacaga	atcaggggat	aacgcaggaa	agaacatgtg	840
agcaaaaggc	cagcaaaagg	ccaggaaccg	taaaaaggcc	gcgttgctgg	cgtttttcca	900
taggctccgc	ccccctgacg	agcatcacia	aaatcgacgc	tcaagtcaga	ggtggcgaaa	960
cccgacagga	ctataaagat	accaggcgtt	tccccctgga	agctccctcg	tgcgctctcc	1020
tgttccgacc	ctgccgctta	ccggatacct	gtccgccttt	ctcccttcgg	gaagcgtggc	1080
gctttctcaa	tgctcacgct	gtaggtatct	cagttcgggtg	taggtcgttc	gctccaagct	1140
gggctgtgtg	cacgaacccc	ccgttcagcc	cgaccgctgc	gccttatccg	gtaactatcg	1200
tcttgagtcc	aaccgcgtaa	gacacgactt	atcgccactg	gcagcagcca	ctggtaacag	1260
gattagcaga	gcgaggtatg	taggcgggtg	tacagagttc	ttgaagtggg	ggcctaacta	1320
cggctacact	agaaggacag	tatttggtat	ctgcgctctg	ctgaagccag	ttaccttcgg	1380
aaaaagagtt	ggtagctctt	gatccggcaa	acaaaccacc	gctggtagcg	gtgggttttt	1440
tgtttgcaag	cagcagatta	cgcgagaaaa	aaaaggatct	caagaagatc	ctttgatctt	1500
ttctacgggg	tctgacgctc	agtggaacga	aaactcacgt	taagggattt	tggtcatgag	1560
attatcaaaa	aggatcttca	cctagatcct	tttaaatata	aatgaagtt	ttaaatcaat	1620
ctaaagtata	tatgagtaaa	cttggtctga	cagttaccaa	tgcttaatca	gtgaggcacc	1680
tatctcagcg	atctgtctat	ttcggtcatc	catagttgcc	tgactccccg	tcgtgtagat	1740
aactacgata	cgggagggct	taccatctgg	ccccagtgcg	gcaatgatac	cgcgagaccc	1800
acgctcaccg	gctccagatt	tatcagcaat	aaaccagcca	gccggaaggg	ccgagcgag	1860
aagtggctct	gcaactttat	ccgcctccat	ccagtctatt	aattgttgcc	gggaagctag	1920
agtaagtagt	tcgccagtta	atagtttgcg	caacgttggt	gccattgcta	caggcatcgt	1980
ggtgtcacgc	tcgtcgtttg	gtatggcttc	attcagctcc	ggttcccaac	gatcaaggcg	2040
agttacatga	tcccccatgt	tgtgcaaaaa	agcgggttagc	tccttcgggtc	ctccgatcgt	2100

025CIP SEQ List ver2.txt

tgtcagaagt aagttggccg cagtgttatc actcatggtt atggcagcac tgcataattc	2160
tcttactgtc atgccatccg taagatgctt ttctgtgact ggtgagtact caaccaagtc	2220
attctgagaa tagtgtatgc ggcgaccgag ttgctcttgc ccggcgtcaa tacgggataa	2280
taccgcgcca catagcagaa ctttaaaagt gctcatcatt ggaaaacggt cttcggggcg	2340
aaaactctca aggatcttac cgctgttgag atccagttcg atgtaaccca ctcgtgcacc	2400
caactgatct tcagcatctt ttactttcac cagcgtttct gggtagagcaa aaacaggaag	2460
gcaaaatgcc gcaaaaaagg gaataagggc gacacggaaa tgttgaatac tcatactctt	2520
cctttttcaa tattattgaa gcatttatca gggttattgt ctcatgagcg gatacatatt	2580
tgaatgtatt tagaaaaata aacaaatagg gggtccgcgc acatttcccc gaaaagtgcc	2640
acctgacgcg ccctgtagcg gcgcattaag cgcggcgggt gtggtggtta cgcgacgcgt	2700
gaccgctaca cttgccagcg ccctagcgcc cgctcctttc gctttcttcc cttcctttct	2760
cgccacgttc gccggctttc cccgtcaagc tctaaatcgg gggctccctt tagggttccg	2820
atttagtgct ttacggcacc tcgaccccaa aaaacttgat tagggtagtg gttcacgtag	2880
tgggccatcg ccctgataga cggtttttcg ccctttgacg ttggagtcca cgttctttaa	2940
tagtggactc ttgttccaaa ctggaacaac actcaaccct atctcgggtct attcttttga	3000
tttataaggg attttgccga tttcggccta ttgggttaaaa aatgagctga ttttaacaaa	3060
atttaacgcg aattttaaca aaatattaac gtttacaatt tcccattcgc cattcaggct	3120
gcgcaactgt tgggaagggc gatcgggtgcg ggctcttcg ctattacgcc agcccaagct	3180
accatgataa gtaagtaata ttaaggtagc ggaggtactt ggagcggccg caataaaata	3240
tctttatttt cattacatct gtgtgttgggt tttttgtgtg aatcgatagt actaacatac	3300
gctctccatc aaaacaaaac gaaacaaaac aaactagcaa aataggctgt cccagtgca	3360
agtgcagggt ccagaacatt tctctatcga taggtaccga gctcttacgc gtgctagccc	3420
tcgagcagga tctatacatt gaatcaatat tggcaattag ccatattagt cattggttat	3480
atagcataaa tcaatattgg ctattggcca ttgcatacgt tgtatctata tcataatatg	3540
tacatttata ttggctcatg tccaatatga ccgccatgtt gacattgatt attgactagt	3600
tattaatagt aatcaattac ggggtcatta gttcatagcc catatatgga gttccgcgtt	3660
acataactta cggtaaatgg cccgcctggc tgaccgcca acgacccccg cccattgacg	3720
tcaataatga cgtatgttcc catagtaacg ccaataggga ctttcattg acgtcaatgg	3780
gtggagtatt tacggtaaac tgcccacttg gcagtacatc aagtgtatca tatgccaagt	3840
ccgcccccta ttgacgtcaa tgacggtaaa tggcccgctt ggcatatgc ccagtacatg	3900
accttacggg actttcctac ttggcagtag atctacgtat tagtcatcgc tattaccatg	3960
gtgatgcgggt tttggcagta catcaatggg cgtggatagc ggtttgactc acggggattt	4020

025CIP SEQ List ver2.txt

```

ccaagtctcc accccattga cgtcaatggg agtttgtttt ggcacaaaaa tcaacgggac 4080
tttccaaaat gtcgtaacaa ctccgccccca ttgacgcaaa tgggcggtag gcgtgtacgg 4140
tgggaggtct atataagcag agctcgttta gtgaaccgtc agatcgcttg gagacgccat 4200
ccacgctggt ttgacctcca tagaagacac cgggaccgat ccagcctccc ctcgaagctc 4260
gactctaggg gctcgagatc cccgggtacc ggtcgccacc atggtgagca agggcgagga 4320
gctgttcacc ggggtggtgc ccatcctggt cgagctggac ggcgacgtaa acggccacaa 4380
gttcagcgtg tccggcgagg gcgagggcga tgccacctac ggcaagctga ccctgaagtt 4440
catctgcacc accggcaagc tgcccgtgcc ctggcccacc ctcgtgacca ccctgacctt 4500
cggcgtgcag tgcttcagcc gctaccccga ccacatgaag cagcacgact tcttcaagtc 4560
cgccatgccc gaaggctacg tccaggagcg caccatcttc ttcaaggacg acggcaacta 4620
caagaccgc gccgaggtga agttcgaggg cgacaccctg gtgaaccgca tcgagctgaa 4680
gggcatcgac ttcaaggagg acggcaacat cctggggcac aagctggagt acaactacaa 4740
cagccacaac gtctatatca tggccgacaa gcagaagaac ggcataagg tgaacttcaa 4800
gatccgccac aacatcgagg acggcagcgt gcagctcgcc gaccactacc agcagaacac 4860
ccccatcggc gacggccccg tgctgctgcc cgacaaccac tacctgagca cccagtccgc 4920
cctgagcaaa gaccccaacg agaagcgcg tcacatggtc ctgctggagt tcgtgaccgc 4980
cgccgggatc actctcggca tggacgagct gtacaagtaa agcggccgct cgagcatgca 5040
t 5041

```

```

<210> 7
<211> 18116
<212> DNA
<213> artificial

```

```

<400> 7
gggctgcagg aattcgattg ccgccttctt tgatattcac tctgttgat ttcattctctt 60
cttgccgatg aaaggatata acagtctgta taacagtctg tgaggaaata cttggtatctt 120
cttctgatca gtgtttttat aagtaatgtt gaatattgga taaggctgtg tgtcctttgt 180
cttgggagac aaagcccaca gcaggtggtg gttgggggtg tggcagctca gtgacaggag 240
aggttttttt gcctgttttt tttttttttt ttttttttaa gtaagggtgtt cttttttctt 300
agtaaatctt ctactggact gtatgttttg acaggtcaga aacatttctt caaaagaaga 360
accttttgga aactgtacag cccttttctt tcattccctt tttgctttct gtgccaatgc 420
ctttggttct gattgcatta tggaaaacgt tgatcggaac ttgaggtttt tatttatagt 480
gtggcttgaa agcttgata gctgttgta cacgagatac cttattaagt ttaggcagc 540
ttgatgcttt attttttccc tttgaagtag tgagcgttct ctggtttttt tcctttgaaa 600

```

025CIP SEQ List ver2.txt

ctggtgaggc ttagatTTTT ctaatgggat tttttacctg atgatctagt tgcataccca	660
aatgcttgta aatgttttcc tagttaacat gttgataact tcggatttac atgttgata	720
tacttgatcat ctgtgtttct agtaaaaata tatggcattt atagaaatac gtaattcctg	780
atttcctttt tttttatctc tatgctctgt gtgtacaggt caaacagact tcactcctat	840
ttttatttat agaattttat atgcagtctg tcggttggtc ttgtgttgta aggatacagc	900
cttaaatttc ctagagcgat gctcagtaag gcgggttggtc acatgggttc aaatgtaaaa	960
cgggcacgtt tggctgctgc cttcccagaga tccaggacac taaactgctt ctgcactgag	1020
gtataaatcg cttcagatcc cagggagtg cagatccacg tgcataattct taaagaagaa	1080
tgaatacttt ctaaaatatt ttggcatagg aagcaagctg catggatttg tttgggactt	1140
aaattatttt ggtaacggag tgcataaggt ttaaacacag ttgcagcatg ctaacgagtc	1200
acagcgttta tgcagaagtg atgcctggat gcctgttgca gctgtttacg gactgcctt	1260
gcagtgcagca ttgcagatag ggggtggggtg ctttgtgtcg tgttcccaca cgctgccaca	1320
cagccacctc ccggaacaca tctcacctgc tgggtacttt tcaaaccatc ttagcagtag	1380
tagatgagtt actatgaaac agagaagttc ctcagttgga tattctcatg ggatgtcttt	1440
tttcccatgt tgggcaaagt atgataaagc atctctattt gtaaattatg cacttgtag	1500
ttcctgaatc ctttctatag caccacttat tgcagcaggt gtaggctctg gtgtggcctg	1560
tgtctgtgct tcaatctttt aaagcttctt tggaaataca ctgacttgat tgaagtctct	1620
tgaagatagt aaacagtact tacctttgat cccaatgaaa tcgagcattt cagttgtaaa	1680
agaattccgc ctattcatac catgtaatgt aattttacac cccagtgct gacactttgg	1740
aatatattca agtaatagac tttggcctca ccctcttggt tactgtattt tgtaatagaa	1800
aatattttta actgtgcata tgattattac attatgaaag agacattctg ctgatcttca	1860
aatgtaagaa aatgaggagt gcgtgtgctt ttataaatac aagtgattgc aaattagtgc	1920
aggtgtcctt aaaaaaaaaa aaaaaaagta atataaaaag gaccagggtg tttacaagtg	1980
aaatacattc ctatttggtt aacagttaca tttttatgaa gattaccagc gctgctgact	2040
ttctaaacat aaggctgtat tgtcttcctg taccattgca tttcctcatt cccaatttgc	2100
acaaggatgt ctgggtaaac tattcaagaa atggctttga aatacagcat gggagcttgt	2160
ctgagttgga atgcagagtt gactgcaaa atgtcaggaa atggatgtct ctcagaatgc	2220
ccaactcaa aggattttat atgtgtatat agtaagcagt ttcctgattc cagcaggcca	2280
aagagtctgc tgaatgttgt gttgccggag acctgtattt ctcaacaagg taagatggta	2340
tcctagcaac tgcggatttt aatacatttt cagcagaagt acttagttaa tctctacctt	2400
tagggatcgt ttcattcttt ttagatgtta tacttgaaat actgcataac ttttagcttt	2460

025CIP SEQ List ver2.txt

catgggttcc	tttttttcag	ccttttaggag	actgttaagc	aatttgctgt	ccaacttttg	2520
tgttggtcct	aaactgcaat	agtagtttac	cttgatttga	agaaataaag	accattttta	2580
tattaaaaaa	tacttttgtc	tgtcttcatt	ttgacttgtc	tgatatcctt	gcagtgccca	2640
ttatgtcagt	tctgtcagat	attcagacat	caaaacttaa	cgtgagctca	gtggagttac	2700
agctgcgggt	ttgatgctgt	tattattttct	gaaactagaa	atgatgttgt	cttcatctgc	2760
tcatcaaaca	cttcatgcag	agtgttaaggc	tagtgagaaa	tgcatacatt	tattgatact	2820
tttttaaagt	caacttttta	tcagatTTTT	ttttcatttg	gaaatatatt	gttttctaga	2880
ctgcatagct	tctgaatctg	aaatgcagtc	tgattggcat	gaagaagcac	agcactcttc	2940
atcttactta	aacttcattt	tggaatgaag	gaagttaagc	aagggcacag	gtccatgaaa	3000
tagagacagt	gcgctcagga	gaaagtgaac	ctggatttct	ttggctagt	ttctaaatct	3060
gtagtgagga	aagtaacacc	cgattccttg	aaagggctcc	agctttaatg	cttccaaatt	3120
gaaggtggca	ggcaacttgg	ccactggtta	tttactgcat	tatgtctcag	tttcgcagct	3180
aacctggctt	ctccactatt	gagcatggac	tatagcctgg	cttcagaggc	caggtgaagg	3240
ttgggatggg	tggaaggagt	gctgggctgt	ggctgggggg	actgtgggga	ctccaagctg	3300
agcttggggg	gggcagcaca	gggaaaagt	tgggtaacta	tttttaagta	ctgtgttgca	3360
aacgtctcat	ctgcaaatac	gtaggggtgt	tactctcgaa	gattaacagt	gtgggttcag	3420
taatatatgg	atgaattcac	agtggaagca	ttcaagggtg	gatcatctaa	cgacaccaga	3480
tcataaagct	atgattggaa	gcggtatcag	aagagcgagg	aaggtaagca	gtcttcatat	3540
gttttccctc	cacgtaaagc	agtctgggaa	agtagcacc	cttgagcaga	gacaaggaaa	3600
taattcagga	gcatgtgcta	ggagaacttt	cttgctgaat	tctacttgca	agagctttga	3660
tgcttggtt	ctggtgcctt	ctgcagcacc	tgcaaggccc	agagcctgtg	gtgagctgga	3720
gggaaagatt	ctgctcaagt	ccaagcttca	gcaggtcatt	gtctttgctt	cttccccag	3780
cactgtgcag	cagagtggaa	ctgatgtcga	agcctcctgt	ccactacctg	ttgctgcagg	3840
cagactgctc	tcagaaaaag	agagctaact	ctatgccata	gtctgaagg	aaaatgggtt	3900
ttaaaaaaga	aaacacaaa	gcaaaaccgg	ctgccccatg	agaagaaagc	agtggtaaac	3960
atggtagaaa	aggtgcagaa	gccccaggc	agtgtgacag	gccccctctg	ccacctagag	4020
gcgggaacaa	gcttccctgc	ctagggctct	gcccgcgaag	tgctgttttc	tttggtgggt	4080
tttgtttggc	gtttggtttt	gagatttaga	cacaagggaa	gcctgaaagg	aggtgttggg	4140
cactattttg	gtttgtaaa	cctgtacttc	aaatatatat	tttgtagagg	agtgtagcga	4200
attggccaat	ttaaaaataa	gttgcaagag	attgaaggct	gagtagttga	gagggtaaca	4260
cgtttaatga	gatcttctga	aactactgct	tctaaacact	tgtttgagt	gtgagacctt	4320
ggataggtga	gtgctcttgt	tacatgtctg	atgcacttgc	ttgtcctttt	ccatccacat	4380

025CIP SEQ List ver2.txt

ccatgcattc	cacatccacg	catttgtcac	ttatcccata	tctgtcatat	ctgacataacc	4440
tgtctcttcg	tcacttggtc	agaagaaaca	gatgtgataa	tccccagccg	ccccaagttt	4500
gagaagatgg	cagttgcttc	tttccctttt	tcctgctaag	taaggatttt	ctcctggctt	4560
tgacacctca	cgaaatagtc	ttcctgcctt	acattctggg	cattatttca	aatatctttg	4620
gagtgcgctg	ctctcaagtt	tgtgtcttcc	tactcttaga	gtgaatgctc	ttagagtga	4680
agagaaggaa	gagaagatgt	tggccgcagt	tctctgatga	acacacctct	gaataatggc	4740
caaagggtggg	tgggtttctc	tgaggaacgg	gcagcgtttg	cctctgaaag	caaggagctc	4800
tgcggagtgg	cagttatttt	gcaactgatg	gtggaactgg	tgcttaaagc	agattcccta	4860
ggttccctgc	tacttctttt	ccttcttggc	agtcagttta	tttctgacag	acaaacagcc	4920
acccccactg	caggcttaga	aagtatgtgg	ctctgcctgg	gtgtgttaca	gctctgccct	4980
ggtgaaaggg	gattaaaacg	ggcaccattc	atcccaaaca	ggatcctcat	tcatggatca	5040
agctgtaagg	aacttgggct	ccaacctcaa	aacattaatt	ggagtacgaa	tgtaattaaa	5100
actgcattct	cgcattccta	agtcatttag	tctggactct	gcagcatgta	ggtcggcagc	5160
ttccactttc	tcaaagacca	ctgatggagg	agtagtaaaa	atggagaccg	attcagaaca	5220
accaacggag	tgttgccgaa	gaaactgatg	gaaataatgc	atgaattgtg	tggtggacat	5280
tttttttaaa	tacataaact	acttcaaatg	aggctcggaga	aggtcagtgt	tttattagca	5340
gccataaaac	cagggtgagcg	agtaccattt	ttctctacaa	gaaaaacgat	tctgagctct	5400
gcgtaagtat	aagttctcca	tagcggctga	agctcccccc	tggtgcctg	ccatctcagc	5460
tggagtgcag	tgccatttcc	ttgggggttt	tctcacagca	gtaatgggac	aatacttcac	5520
aaaaattctt	tcttttctcg	tcatgtggga	tccctactgt	gccctcctgg	ttttacgtta	5580
ccccctgact	gttccattca	gcggtttgga	aagagaaaaa	gaatttgga	ataaaacatg	5640
tctacgttat	cacctcctcc	agcattttgg	tttttaatta	tgtcaataac	tggcttagat	5700
ttggaaatga	gaggggggtt	ggtgtattac	cgaggaacaa	aggaaggctt	atataaactc	5760
aagtctttta	tttagagaac	tggcaagctg	tcaaaaacaa	aaaggcctta	ccaccaaatt	5820
aagtgaatag	ccgctatagc	cagcagggcc	agcacgaggg	atggtgcact	gctggcacta	5880
tgccacggcc	tgcttgtagc	tctgagagca	actgctttgg	aaatgacagc	acttggtgca	5940
atttcctttg	tttcagaatg	cgtagagcgt	gtgcttggcg	acagtttttc	tagttaggcc	6000
acttcttttt	tccttctctc	ctcattctcc	taagcatgtc	tccatgctgg	taatcccagt	6060
caagtgaacg	ttcaaacaat	gaatccatca	ctgtaggatt	ctcgtggtga	tcaaactctt	6120
gtgtgaggtc	tataaaatat	ggaagcttat	ttatttttcg	ttcttccata	tcagtcttct	6180
ctatgacaat	tcacatccac	cacagcaa	taaaggtgaa	ggaggctggt	gggatgaaga	6240

025CIP SEQ List ver2.txt

gggtcttcta gctttacgtt cttccttgca aggccacagg aaaatgctga gagctgtaga	6300
atacagcctg gggtaagaag ttcagttctcc tgctgggaca gctaaccgca tcttataacc	6360
ccttctgaga ctcatcttag gaccaaatag ggtctatctg gggtttttgt tcctgctggt	6420
cctcctggaa ggctatctca ctatttctact gctcccacgg ttacaaacca aagatacagc	6480
ctgaatTTTT tctaggccac attacataaa tttgacctgg taccaatatt gttctctata	6540
tagttatttc cttccccact gtgtttaacc ccttaaggca ttcagaacaa ctagaatcat	6600
agaatggttt ggattggaag gggccttaaa catcatccat ttccaaccct ctgccatggg	6660
ctgcttgcca cccactggct caggctgccc agggcccat ccagcctggc cttgagcacc	6720
tccagggatg gggcacccac agcttctctg ggcagcctgt gccaacacct caccactctc	6780
tgggtaaaga atttctttt aacatctaata ctaaattctt tctcttttag tttaaagcca	6840
ttcctctttt tcccgttgct atctgtccaa gaaatgtgta ttgggtctccc tcctgcttat	6900
aagcaggaag tactggaagg ctgcagtgag gtctccccac agccttctct tctccaggct	6960
gaacaagccc agctccttca gcctgtcttc gtaggagatc atcttagtgg cctcctctg	7020
gacccattcc aacagttcca cggctttctt gtggagcccc aggtctggat gcagtacttc	7080
agatggggcc ttacaaaggc agagcagatg gggacaatcg cttaccctc cctgctggct	7140
gcccctgttt tgatgcagcc cagggtactg ttggcctttc aggtctccag accccttgct	7200
gatttggtgc aagcttttca tccaccagaa cccacgcttc ctggttaata cttctgccct	7260
cacttctgta agcttgtttc aggagacttc cattcttttag gacagactgt gttacaccta	7320
cctgccctat tcttgcatat atacatttca gttcatgttt cctgtaacag gacagaatat	7380
gtattcctct aacaaaaata catgcagaat tcctagtgcc atctcagtag ggttttcatg	7440
gcagtattag cacatagtca atttgctgca agtaccttcc aagctgcggc ctcccataaa	7500
tcctgtattt gggatcagtt accttttggg gtaagctttt gtatctgcag agaccctggg	7560
ggttctgatg tgcttcagct ctgctctggt ctgactgcac cattttctag atcaccagct	7620
tgttcctgta caacttcctt gtccctccatc ctttccagc ttgtatcttt gacaaataca	7680
ggcctatttt tgtgtttgct tcagcagcca tttaatctt cagtgtcatc ttgttctggt	7740
gatgccactg gaacaggatt ttcagcagtc ttgcaaagaa catctagctg aaaactttct	7800
gccattcaat attcttacca gttcttcttg tttgagggtga gccataaatt actagaactt	7860
cgtcactgac aagtttatgc attttattac ttctattatg tacttacttt gacataacac	7920
agacacgcac atattttgct gggattttcca cagtgtctct gtgtccttca catgggtttta	7980
ctgtcatact tccgttataa ccttggcaat ctgcccagct gcccatcaca agaaaagaga	8040
ttcctttttt attacttctc ttcagccaat aaacaaaatg tgagaagccc aaacaagaac	8100
ttgtggggca ggctgccatc aaggagagaga cagctgaagg gttgtgtagc tcaatagaat	8160

025CIP SEQ List ver2.txt

taagaaataa taaagctgtg tcagacagtt ttgcctgatt tatacaggca cgccccaagc	8220
cagagaggct gtctgccaag gccaccttgc agtccttggg ttgtaagata agtcataggt	8280
aacttttctg gtgaattgcg tggagaatca tgatggcagt tcttgctgtt tactatggta	8340
agatgctaaa ataggagaca gcaaagtaac acttgctgct gtaggtgctc tgctatccag	8400
acagcgatgg cactcgaca ccaagatgag ggatgctccc agctgacgga tgctggggca	8460
gtaacagtgg gtcccatgct gcctgctcat tagcatcacc tcagccctca ccagcccatc	8520
agaaggatca tcccaagctg aggaaagttg ctcatcttct tcacatcatc aaacctttgg	8580
cctgactgat gcctcccgga tgcttaaagt tggctactga catctttatt tttctatgat	8640
ttcaagtcag aacctccgga tcaggaggga acacatagtg ggaatgtacc ctcagctcca	8700
aggccagatc ttccttcaat gatcatgcat gctacttagg aagggtgtgtg tgtgtgaatg	8760
tagaattgcc tttgttattt tttcttcctg ctgtcaggaa cattttgaat accagagaaa	8820
aagaaaagtg ctcttcttgg catgggagga gttgtcacac ttgcaaaata aaggatgcag	8880
tcccaaagt tcataatctc agggctctgaa ggaggatcag aaactgtgta tacaatttca	8940
ggcttctctg aatgcagctt ttgaaagctg ttcctggccg aggcagtact agtcagaacc	9000
ctcggaaaca ggaacaaatg tcttcaaggt gcagcaggag gaaacacctt gcccatcatg	9060
aaagtgaata accactgccg ctgaaggaat ccagctcctg tttgagcagg tgctgcacac	9120
tcccacactg aaacaacagt tcatttttat aggacttcca ggaaggatct tcttcttaag	9180
cttcttaatt atggtacatc tccagttggc agatgactat gactactgac aggagaatga	9240
ggaactagct gggaatattt ctgtttgacc accatggagt caccatttc tttactggta	9300
tttggaata ataattctga attgcaaagc aggagttagc gaagatcttc atttcttcca	9360
tgttggtgac agcacagttc tggctatgaa agtctgctta caaggaagag gataaaaatc	9420
atagggataa taaatctaag tttgaagaca atgaggtttt agctgcattt gacatgaaga	9480
aattgagacc tctactggat agctatggta ttacgtgtc tttttgctta gttacttatt	9540
gaccccagct gaggtcaagt atgaactcag gtctctcggg ctactggcat ggattgatta	9600
catacaactg taatttttagc agtgatttag ggtttatgag tacttttgca gtaaatcata	9660
gggttagtaa tgtaatctc agggaaaaaa aaaaaagcc aacctgaca gacatcccag	9720
ctcaggtgga aatcaaggat cacagctcag tgcggtccca gagaacacag ggactcttct	9780
cttaggacct ttatgtacag ggcctcaaga taactgatgt tagtcagaag actttccatt	9840
ctggccacag ttcagctgag gcaatcctgg aattttctct ccgctgcaca gttccagtca	9900
tcccagtttg tacagttctg gcactttttg ggtcaggccg tgatccaagg agcagaagtt	9960
ccagctatgg tcaggagtg cctgaccgtc ccaactcact gcactcaaac aaaggcgaaa	10020

025CIP SEQ List ver2.txt

ccacaagagt	ggcttttgtt	gaaattgcag	tgtggcccag	aggggctgca	ccagtactgg	10080
attgaccacg	aggcaacatt	aatcctcagc	aagtgcatt	tgcagccatt	aaattgaact	10140
aactgatact	acaatgcaat	cagtatcaac	aagtggtttg	gcttggaaga	tggagtctag	10200
gggctctaca	ggagtagcta	ctctctaata	gagttgcatt	ttgaagcagg	acactgtgaa	10260
aagctggcct	cctaaagagg	ctgctaaaca	ttaggggtcaa	ttttccagt	cacttttctga	10320
agtgtctgca	gttcccatg	caaagctgcc	caaacatagc	acttccaatt	gaatacaatt	10380
atatgcaggc	gtactgcttc	ttgccagcac	tgtccttctc	aaatgaactc	aacaaacaat	10440
ttcaaagtct	agtagaaagt	aacaagcttt	gaatgtcatt	aaaaagtata	tctgctttca	10500
gtagttcagc	ttatttatgc	ccactagaaa	catcttgtac	aagctgaaca	ctggggctcc	10560
agattagtgg	taaaacctac	tttatacaat	catagaatca	tagaatggcc	tgggttgga	10620
gggaccccaa	ggatcatgaa	gatccaacac	ccccgccaca	ggcagggcca	ccaacctcca	10680
gatctggtac	tagaccaggc	agcccagggc	tccatccaac	ctggccatga	acacctccag	10740
ggatggagca	tccacaacct	ctctgggcag	cctgtgccag	cacctacca	ccctctctgt	10800
gaagaacttt	tccctgacat	ccaatctaag	ccttccctcc	ttgagggttag	atccactccc	10860
ccttgtgcta	tactgtcta	ctcttgtaaa	aagttgattc	tcctcctttt	tggaagggtg	10920
caatgaggtc	tccttgagc	cttcttctct	tctgcaggat	gaacaagccc	agctccctca	10980
gcctgtcttt	ataggagagg	tgctccagcc	ctctgatcat	ctttgtggcc	ctcctctgga	11040
cccgtccaa	gagctccaca	tctttcctgt	actggggggc	ccaggcctga	atgcagtact	11100
ccagatgggg	cctcaaaaga	gcagagtaaa	gagggacaat	caccttcctc	accctgctgg	11160
ccagccctct	tctgatggag	ccctggatac	aactggcttt	ctgagctgca	acttctcctt	11220
atcagttcca	ctattaaaac	aggaacaata	caacaggtgc	tgatggccag	tgcagagttt	11280
ttcacacttc	ttcatttcgg	tagatcttag	atgaggaacg	ttgaagttgt	gcttctgcgt	11340
gtgcttcttc	ctcctcaaat	actcctgcct	gatacctcac	cccacctgcc	actgaatggc	11400
tccatggccc	cctgcagcca	gggccctgat	gaacccggca	ctgcttcaga	tgctgtttaa	11460
tagcacagta	tgaccaagtt	gcacctatga	atacacaac	aatgtgttgc	atccttcagc	11520
acttgagaag	aagagccaaa	tttgcattgt	caggaaatgg	tttagtaatt	ctgccaatta	11580
aaacttgttt	atctaccatg	gctgttttta	tggctgttag	tagtggtaca	ctgatgatga	11640
acaatggcta	tgcagtaaaa	tcaagactgt	agatattgca	acagactata	aaattcctct	11700
gtggcttagc	caatgtggta	cttcccat	tgtataagaa	atgtggcaag	tttagagcaa	11760
tgtttgaaagt	gttgggaaat	ttctgtatac	tcaagagggc	gtttttgaca	actgtagaac	11820
agaggaatca	aaagggggtg	ggaggaagtt	aaaagaagag	gcaggtgcaa	gagagcttgc	11880
agtcccgtg	tgtgtacgac	actggcaaca	tgaggctttt	gctaattctg	gtgctttgct	11940

025CIP SEQ List ver2.txt

tcctgcccct	ggctgcctta	gggtgcgatc	tgccctcagac	ccacagcctg	ggcagcagga	12000
ggaccctgat	gctgctggct	cagatgagga	gaatcagcct	gttttagctgc	ctgaaggata	12060
ggcacgattt	tggcttttcct	caagaggagt	ttggcaacca	gtttcagaag	gctgagacca	12120
tccctgtgct	gcacgagatg	atccagcaga	tctttaacct	gttttagcacc	aaggatagca	12180
gcgctgcttg	ggatgagacc	ctgctggata	agtttttacac	cgagctgtac	cagcagctga	12240
acgatctgga	ggcttgcgctg	atccagggcg	tgggcgtgac	cgagacccct	ctgatgaagg	12300
aggatagcat	cctggctgtg	aggaagtact	ttcagaggat	caccctgtac	ctgaaggaga	12360
agaagtacag	cccctgcgct	tgggaagtcg	tgagggctga	gatcatgagg	agcttttagcc	12420
tgagcaccaa	cctgcaagag	agcttgagg	ctaaggagta	aaaagtctag	agtcggggcg	12480
gccggccgct	tcgagcagac	atgataagat	acattgatga	gtttggacaa	accacaacta	12540
gaatgcagt	aaaaaaatgc	tttatttgctg	aaatttgctga	tgctattgct	ttatttgtaa	12600
ccattataag	ctgcaataaa	caagttaaca	acaacaattg	cattcatttt	atgtttcagg	12660
ttcaggggga	ggtgtgggag	gtttttttaa	gcaagtaaaa	cctctacaaa	tgtggtaaaa	12720
tcgataagga	tccgtcgacc	gatgcccttg	agagccttca	accagtcag	ctccttccgg	12780
tgggcgcggg	gcatgactat	cgctcgccgca	cttatgactg	tcttctttat	catgcaactc	12840
gtaggacagg	tgccggcagc	gctcttccgc	ttcctcgctc	actgactcgc	tgcgctcggt	12900
cgttcggtg	cggcgagcgg	tatcagctca	ctcaaaggcg	gtaatacgg	tatccacaga	12960
atcaggggat	aacgcaggaa	agaacatgtg	agcaaaaggc	cagcaaaagg	ccaggaaccg	13020
taaaaaggcc	gcgttgctgg	cgtttttcca	taggctccgc	ccccctgacg	agcatcacia	13080
aaatcgagc	tcaagtcaga	ggtggcgaaa	cccagacagga	ctataaagat	accaggcggt	13140
tccccctgga	agctccctcg	tgcgctctcc	tgttccgacc	ctgccgctta	ccggatacct	13200
gtccgccttt	ctcccttcgg	gaagcgtggc	gctttctcaa	tgctcacgct	gtaggtatct	13260
cagttcggtg	taggtcggtc	gctccaagct	gggctgtgtg	cacgaacccc	ccgttcagcc	13320
cgaccgctgc	gccttatccg	gtaactatcg	tcttgagtcc	aaccggtaa	gacacgactt	13380
atcgccactg	gcagcagcca	ctggtaacag	gattagcaga	gcgaggatg	taggcgggtgc	13440
tacagagttc	ttgaagtgg	ggcctaacta	cggctacact	agaaggacag	tatttggtat	13500
ctgcgctctg	ctgaagccag	ttaccttcgg	aaaaagagtt	ggtagctctt	gatccggcaa	13560
acaaaccacc	gctggtagcg	gtgggttttt	tgtttgcaag	cagcagatta	cgcgcagaaa	13620
aaaaggatct	caagaagatc	ctttgatctt	ttctacgggg	tctgacgctc	agtggaacga	13680
aaactcacgt	taagggattt	tggatcatgag	attatcaaaa	aggatcttca	cctagatcct	13740
tttaaattaa	aaatgaagtt	ttaaatcaat	ctaaagtata	tatgagtaaa	cttgggtctga	13800

025CIP SEQ List ver2.txt

cagttaccaa	tgcttaatca	gtgaggcacc	tatctcagcg	atctgtctat	ttcgtttcatc	13860
catagttgcc	tgactccccg	tcgtgtagat	aactacgata	cgggaggggt	taccatctgg	13920
ccccagtgt	gcaatgatac	cgcgagaccc	acgctcaccg	gctccagatt	tatcagcaat	13980
aaaccagcca	gccggaaggg	ccgagcgcag	aagtggtcct	gcaactttat	ccgcctccat	14040
ccagtctatt	aattgttgcc	gggaagctag	agtaagtagt	tcgccagtta	atagtttgcg	14100
caacgttggt	gccattgcta	caggcatcgt	ggtgtcacgc	tcgtcgtttg	gtatggcttc	14160
attcagctcc	ggttcccaac	gatcaaggcg	agttacatga	tccccatgt	tgtgcaaaaa	14220
agcggttagc	tccttcggtc	ctccgatcgt	tgtcagaagt	aagttggccg	cagtgttatc	14280
actcatgggt	atggcagcac	tgcataattc	tcttactgtc	atgccatccg	taagatgctt	14340
ttctgtgact	ggtgagtact	caaccaagtc	attctgagaa	tagtgtatgc	ggcgaccgag	14400
ttgtctttgc	ccggcgtaaa	tacgggataa	taccgcgcca	catagcagaa	ctttaaaagt	14460
gctcatcatt	ggaaaacgtt	cttcggggcg	aaaactctca	aggatcttac	cgctgttgag	14520
atccagttcg	atgtaacca	ctcgtgcacc	caactgatct	tcagcatctt	ttactttcac	14580
cagcgtttct	gggtgagcaa	aaacaggaag	gcaaaatgcc	gcaaaaaagg	gaataagggc	14640
gacacggaaa	tgttgaaatac	tcatactctt	cctttttcaa	tattattgaa	gcatttatca	14700
gggttattgt	ctcatgagcg	gatacatatt	tgaatgtatt	tagaaaaata	aacaaatagg	14760
ggttccgcgc	acatttcccc	gaaaagtgcc	acctgacgcg	ccctgtagcg	gcgcattaag	14820
cgcggcggggt	gtggtggtta	cgcgcagcgt	gaccgctaca	cttgccagcg	ccctagcgcc	14880
cgctcctttc	gctttcttcc	cttcctttct	cgccacgttc	gccggctttc	cccgtcaagc	14940
tctaaatcgg	gggtccctt	tagggttccg	atttagtgct	ttacggcacc	tcgaccccaa	15000
aaaacttgat	taggggtgatg	gttcacgtag	tgggccatcg	ccctgataga	cggtttttcg	15060
ccctttgacg	ttggagtcca	cgttctttta	tagtggactc	ttgttccaaa	ctggaacaac	15120
actcaaccct	atctcgggtct	attcttttga	tttataaggg	attttgccga	tttcggccta	15180
ttgggttaaaa	aatgagctga	tttaacaaaa	atttaacgcg	aattttaaca	aaatattaac	15240
gtttacaatt	tcccatcgc	cattcaggct	gcgcaactgt	tgggaagggc	gatcggtgcg	15300
ggcctcttcg	ctattacgcc	agcccaagct	accatgataa	gtaagtaata	ttaaggtagc	15360
ggaggtactt	ggagcggccg	ctctagaact	agtggatccc	ccggccgcaa	taaaatatct	15420
ttattttcat	tacatctgtg	tgttggtttt	ttgtgtgaat	cgatagtact	aacatacgct	15480
ctccatcaaa	acaaaacgaa	acaaaacaaa	ctagcaaaat	aggctgtccc	cagtgcaggt	15540
gcaggtgcc	gaacatttct	ctatcgatag	gtaccgagct	cttacgcgtg	ctagccctcg	15600
agcaggatct	atacattgaa	tcaatattgg	caattagcca	tattagtc	tggttatata	15660
gcataaatca	atattggcta	ttggccattg	catacgttgt	atctatatca	taatatgtac	15720

025CIP SEQ List ver2.txt

atttatattg	gctcatgtcc	aatatgaccg	ccatgttgac	attgattatt	gactagttat	15780
taatagtaat	caattacggg	gtcattagtt	catagcccat	atatggagtt	ccgcgttaca	15840
taacttacgg	taaatggccc	gcctggctga	ccgcccacg	acccccgccc	attgacgtca	15900
ataatgacgt	atgttcccat	agtaacgcca	atagggactt	tccattgacg	tcaatgggtg	15960
gagtatttac	ggtaaactgc	ccacttgga	gtacatcaag	tgtatcatat	gccaagtccg	16020
ccccctattg	acgtcaatga	cggtaaatgg	cccgcctggc	attatgccc	gtacatgacc	16080
ttacgggact	ttcctacttg	gcagtacatc	tacgtattag	tcatcgctat	taccatgggtg	16140
atgcggtttt	ggcagtacat	caatgggctg	ggatagcgg	ttgactcacg	gggatttcca	16200
agtctccacc	ccattgacgt	caatgggagt	ttgttttggc	acaaaaatca	acgggacttt	16260
ccaaaatgtc	gtaacaactc	cgccccattg	acgcaaattg	gcggtaggcg	tgtacgggtg	16320
gaggtctata	taagcagagc	tcgttttagtg	aaccgtcaga	tcgcctggag	acgccatcca	16380
cgctgttttg	acctccatag	aagacaccgg	gaccgatcca	gcctccccctc	gaagctcgac	16440
tctaggggct	cgagatctgc	gatctaagta	agcttgcatg	cctgcagggtc	ggccgccacg	16500
accggtgccg	ccaccatccc	ctgaccacg	cccctgaccc	ctcacaagga	gacgaccttc	16560
catgaccgag	tacaagccca	cggtgcgcct	cgccacccgc	gacgacgtcc	cccgggccgt	16620
acgcaccctc	gccgccgcgt	tcgccgacta	ccccgccacg	cgccacaccg	tcgaccggga	16680
ccgccacatc	gagcgggtca	ccgagctgca	agaactcttc	ctcacgcgcg	tcgggctcga	16740
catcggcaag	gtgtgggtcg	cggacgacgg	cgccgcgggtg	gcgggtctgga	ccacgccgga	16800
gagcgtcgaa	gcggggggcg	tgttcgccga	gatcggccccg	cgcatggccg	agttgagcgg	16860
ttcccggtcg	gccgcgcagc	aacagatgga	aggcctctcg	gcgccgcacc	ggcccaagga	16920
gcccgcgtgg	ttcctggcca	ccgtcggcgt	ctcgcccgac	caccagggca	aggggtctggg	16980
cagcgccgtc	gtgtcccccg	gagtggaggc	ggccgagcgc	gccgggggtgc	ccgccttcct	17040
ggagacctcc	gcgccccgca	acctccccctt	ctacgagcgg	ctcggcttca	ccgtcaccgc	17100
cgacgtcgag	gtgcccgaag	gaccgcgcac	ctggtgcatg	acccgcaagc	ccggtgcctg	17160
acgcccggcc	cacgaccgcg	agcggccgac	cgaaaggagc	gcacgacccc	atggctccga	17220
ccgaagccga	cccggggcgg	cccggcgacc	ccgcacccgc	ccccgaggcc	caccgactct	17280
agagtcgggg	cggccggccg	cttcgagcag	acatgataag	atacattgat	gagtttggac	17340
aaaccacaac	tagaatgcag	tgaaaaaat	gctttatttg	tgaaatttgt	gatgctattg	17400
ctttatttgt	aaccattata	agctgcaata	aacaagttaa	caacaacaat	tgcattcatt	17460
ttatgtttca	ggttcagggg	gaggtgtggg	aggtttttta	aagcaagtaa	aacctctaca	17520
aatgtggtaa	aatcgataag	gatcaattcg	gcttcaggta	ccgtcgacga	tgtaggtcac	17580

025CIP_SEQ_List_ver2.txt

```

gggtctcgaag ccgcggtgcg ggtgccaggg cgtgcccttg ggctccccgg gcgcgtactc 17640
cacctcaccc atctggtcca tcatgatgaa cgggtcgagg tggcggtagt tgatccccggc 17700
gaacgcgcgg cgccaccgga agccctcgcc ctcgaaaccg ctgggcgcgg tggtcacggt 17760
gagcacggga cgtgcgacgg cgtcggcggg tgcggatacg cggggcagcg tcagcggggt 17820
ctcgacgggtc acggcgggca tgctgacagc cgaattgatc cgtcgaccga tgcccttgag 17880
agccttcaac ccagtcagct ctttccggtg ggcgcggggc atgactatcg tcgccgcact 17940
tatgactgtc ttctttatca tgcaactcgt aggacagggt ccggcagcgc tcttccgctt 18000
cctcgctcac tgactcgctg cgctcggtcg ttcggctgcy gcgagcggtg tcagctcact 18060
caaaggcggt aatacggtta tccacagaat caggggataa cgcaggaaag aacatg 18116

```

```

<210> 8
<211> 17402
<212> DNA
<213> artificial

```

```

<400> 8
ggccgccacc gcggtggagc tccaattcgc cctatagtga gtcgtattac aattcactgg 60
ccgtcgtttt acaacgtcgt gactgggaaa accctggcgt tacccaactt aatcgccctg 120
cagcacatcc ccctttcgcc agctggcgta atagcgaaga ggcccgcacc gatcgccctt 180
cccaacagtt gcgcagcctg aatggcgaat gggacgcgcc ctgtagcggc gcattaagcg 240
cggcggtgtg ggtggttacg cgacgcgtga ccgctacact tgccagcgcc ctacgcgccg 300
ctcctttcgc tttcttccct tcctttctcg ccacgttcgc cggctttccc cgtcaagctc 360
taaactcgggg gctcccttta gggttccgat ttagtgcttt acggcacctc gaccccaaaa 420
aacttgatta ggggtgatgg tcaagtagtg ggccatcgcc ctgatagacg gtttttcgcc 480
ctttgacgtt ggagtccacg ttctttaata gtggactctt gttccaaact ggaacaacac 540
tcaaccctat ctcggtctat tcttttgatt tataagggat ttgcccatt tcggcctatt 600
ggttaaaaaa tgagctgatt taacaaaaat ttaacgcgaa ttttaacaaa atattaacgc 660
ttacaattta ggtggcactt ttcggggaaa tgtgcgcgga acccctatgt gtttattttt 720
ctaaatacat tcaaatatgt atccgctcat gagacaataa ccctgataaa tgcttcaata 780
atattgaaaa aggaagagta tgagtattca acatttccgt gtcgccctta ttcccttttt 840
tgcggcattt tgccttcctg tttttgctca cccagaaacg ctggtgaaaag taaaagatgc 900
tgaagatcag ttgggtgcac gagtgggtta catcgaactg gatctcaaca gcggtgaagat 960
ccttgagagt tttcgccccg aagaacgttt tccaatgatg agcactttta aagttctgct 1020
atgtggcgcg gtattatccc gtattgacgc cgggcaagag caactcgggt gccgcataca 1080
ctattctcag aatgacttgg ttgagtactc accagtcaca gaaaagcatc ttacggatgg 1140

```

025CIP SEQ List ver2.txt

catgacagta agagaattat gcagtgtctgc cataacccatg agtgataaca ctgcggccaa	1200
cttactttctg acaacgatcg gaggaccgaa ggagctaacc gcttttttgc acaacatggg	1260
ggatcatgta actcgccttg atcgtttgga accggagctg aatgaagcca taccaaacga	1320
cgagcgtgac accacgatgc ctgtagcaat ggcaacaacg ttgcgcaaac tattaactgg	1380
cgaactactt actctagctt cccggcaaca attaatagac tggatggagg cggataaagt	1440
tgcaggacca cttctgcgct cggcccttcc ggctggctgg tttattgctg ataaatctgg	1500
agccggtgag cgtgggtctc gcggtatcat tgcagcactg gggccagatg gtaagccctc	1560
ccgtatcgta gttatctaca cgacggggag tcaggcaact atggatgaac gaaatagaca	1620
gatcgctgag ataggtgcct cactgattaa gcattggtaa ctgtcagacc aagtttactc	1680
atatatactt tagattgatt taaaacttca tttttaattt aaaaggatct aggtgaagat	1740
cctttttgat aatctcatga ccaaaatccc ttaacgtgag ttttcgttcc actgagcgtc	1800
agaccccgta gaaaagatca aaggatcttc ttgagatcct ttttttctgc gcgtaatctg	1860
ctgcttgcaa acaaaaaaac caccgctacc agcggtggtt tgtttgccgg atcaagagct	1920
accaactctt tttccgaagg taactggctt cagcagagcg cagataccaa atactgtcct	1980
tctagtgtag ccgtagttag gccaccactt caagaactct gtagcaccgc ctacatacct	2040
cgctctgcta atcctgttac cagtggctgc tgccagtggc gataagtcgt gtcttaccgg	2100
gttggactca agacgatagt taccggataa ggcgagcgg tcgggctgaa cgggggggttc	2160
gtgcacacag cccagcttgg agcgaacgac ctacaccgaa ctgagatacc tacagcgtga	2220
gctatgagaa agcgccacgc ttcccgaagg gagaaaggcg gacaggatc cggtaagcgg	2280
cagggtcgga acaggagagc gcacgagggg gcttccaggg ggaaacgcct ggtatcttta	2340
tagtcctgtc ggggttcgcc acctctgact tgagcgtcga tttttgtgat gctcgtcagg	2400
ggggcggagc ctatggaaaa acgccagcaa cgcggccttt ttacggttcc tggccttttg	2460
ctggcctttt gctcacatgt tctttcctgc gttatcccct gattctgtgg ataaccgtat	2520
taccgccttt gagtgaagctg ataccgctcg ccgcagccga acgaccgagc gcagcagtc	2580
agtgagcgag gaagcggaag agcgcccaat acgcaaaccg cctctccccg cgcgttggcc	2640
gattcattaa tgcagctggc acgacagggt tcccgaactg aaagcgggca gtgagcgcaa	2700
cgcaattaat gtgagttagc tcaactatta ggcaccccag gctttacact ttatgcttcc	2760
ggctcgtatg ttgtgtggaa ttgtgagcgg ataacaattt cacacaggaa acagctatga	2820
ccatgattac gccaaagctcg aaattaaccc tacttaaagg gaacaaaagc tgggtaccgg	2880
gccccccctc gactagaggg acagcccccc ccaaagccc ccagggatgt aattacgtcc	2940
ctccccgct agggggcagc agcgagccgc ccggggctcc gctccggtcc ggcgctcccc	3000
ccgcatcccc gagccggcag cgtgcgggga cagcccgggc acgggggaagg tggcacggga	3060

025CIP SEQ List ver2.txt

tcgctttcct	ctgaacgctt	ctcgtgctc	tttgagcctg	cagacacctg	gggggatacg	3120
gggaaaaagc	tttaggctga	aagagagatt	tagaatgaca	gaatcataga	acggcctggg	3180
ttgcaaagga	gcacagtgtc	catccagatc	caacccccctg	ctatgtgcag	ggtcattcaac	3240
cagcagccca	ggctgcccag	agccacatcc	agcctggcct	tgaatgcctg	cagggatggg	3300
gcatccacag	cctccttggg	caacctgttc	agtgcgtcac	caccctctgg	gggaaaaact	3360
gcctcctcat	atccaacca	aacctccccct	gtctcagtgt	aaagccattc	ccccttgtcc	3420
tatcaagggg	gagtttgctg	tgacattgtt	ggctctgggg	gacacatgtt	tgccaattca	3480
gtgcatcacg	gagaggcaga	tcttggggat	aagggaagtgc	aggacagcat	ggacgtggga	3540
catgcagggt	ttgagggctc	tgggacactc	tccaagtcac	agcggttcaga	acagccttaa	3600
ggataagaag	ataggataga	aggacaaaga	gcaagttaaa	acccagcatg	gagaggagca	3660
caaaaaggcc	acagacactg	ctgggtccctg	tgtctgagcc	tgcatgtttg	atggtgtctg	3720
gatgcaagca	gaaggggtgg	aagagcttgc	ctggagagat	acagctgggt	cagtaggact	3780
gggacaggca	gctggagaat	tgccatgtag	atgttcatac	aatcgtcaaa	tcatgaaggc	3840
tggaaaagcc	ctccaagatc	cccaagacca	acccaaccc	acccaccgtg	cccactggcc	3900
atgtccctca	gtgccacatc	cccacagttc	ttcatcacct	ccagggacgg	tgaccccccc	3960
acctccgtgg	gcagctgtgc	cactgcagca	ccgctctttg	gagaaggtaa	atcttgctaa	4020
atccagcccc	accctccccct	ggcacaacgt	aaggccatta	tctctcatcc	aactccagga	4080
cggagtcagt	gaggatgggg	ctctagtcga	ggtcgacgg	atcgataagc	ttgattaggc	4140
agagcaatag	gactctcaac	ctcgtgagta	tggcagcatg	ttaactctgc	actggagtcc	4200
agcgtgggaa	acaatctgcc	ttgcacatga	gtcttcgtgg	gccaatattc	cccaacgggt	4260
ttccttcagc	ttgtcttgtc	tcctaagctc	tcaaaacacc	tttttgggtga	ataaaactcac	4320
ttggcaacgt	ttatctgtct	taccttagtg	tcacgtttca	tccctattcc	cctttctcct	4380
cctccgtgtg	gtacacagtg	gtgcacactg	gttcttctgt	tgatgttctg	ctctgacagc	4440
caatgtgggt	aaagtcttct	ctgccacgtg	tctgtgttgt	tttcacttca	aaaagggccc	4500
tgggctcccc	ttggagctct	caggcatttc	cttaatcatc	acagtcacgc	tggcaggatt	4560
agtccctcct	aaaccttaga	atgacctgaa	cgtgtgctcc	ctctttgtag	tcagtgcagg	4620
gagacgtttg	cctcaagatc	aggggtccatc	tcacccacag	ggccattccc	aagatgaggt	4680
ggatgggtta	ctctcacaaa	aagttttctt	atgtttggct	agaaaggaga	actcactgcc	4740
tacctgtgaa	ttccccctagt	cctggttctg	ctgccactgc	tgctgtgca	gcctgtccca	4800
tggagggggc	agcaactgct	gtcacaaaagg	tgatcccacc	ctgtctccac	tgaaatgacc	4860
tcagtgccac	gtgttgata	gggtataaag	tacgggaggg	ggatgcccgg	ctcccttcag	4920

025CIP_SEQ_List_ver2.txt

ggttgcagag	cagaagtgtc	tgtgtataga	gtgtgtctta	atctattaat	gtaacagaac	4980
aacttcagtc	ctagtgtttt	gtgggctgga	attgcccattg	tggtaggggac	aggcctgcta	5040
aatcactgca	atcgccctatg	ttctgaaggt	atgtgggaaa	gaaagggatt	tgggggattg	5100
cctgtgattg	gctttaattg	aatggcaaatt	cacaggaaaag	cagttctgct	caacagttgg	5160
ttgtttcagc	caatttcttg	agccaaagag	ccgggtgccc	agcgatataa	tagttgtcac	5220
ttgtgtctgt	atggatgaca	gggaggtagg	gtgacctgag	gaccaccctc	cagcttctgc	5280
tagcgtagg	acagtcacca	cctccagctc	cacacgagtc	ccatcgtgg	ttaccaaaga	5340
aacacaatta	tttgaccag	tttgaaaagt	cacccgctga	attgtgaggc	tagattaata	5400
gagctgaaga	gcaaattgtt	ccaacttgga	gatactagtt	ggtattagta	tcagagggaac	5460
agggccatag	cacctccatg	ctattagatt	ccggctggca	tgtacttttc	aagatgattt	5520
gtaactaaca	atggcttatt	gtgcttgtct	taagtctgtg	tcctaattgta	aatgttcctt	5580
tggtttatat	aaccttcttg	ccatttgctc	ttcagggtgtt	cttgcagaac	actggctgct	5640
ttaatctagt	ttaactgttg	cttgattatt	cttagggata	agatctgaat	aaactttttg	5700
tggttttggc	agacttttag	ttgggcttag	ctccacatt	agcttttgct	gccttttctg	5760
tgaagctatc	aagatcctac	tcaatgacat	tagctgggtg	cagggtgtacc	aaatcctgct	5820
ctgtggaaca	cattgtctga	tgataccgaa	ggcaaactg	aactcaaaga	ggcacagagt	5880
taagaagaag	tctgtgcaat	tcagaggaaa	agccaaagt	gccattagac	acactttcca	5940
tgcagcattt	gccagtaggt	ttcatataaa	actacaaaat	ggaataaacc	actacaaatg	6000
ggaaaagcct	gatactagaa	tttaaataat	cacccaggct	caaggggtgt	ttcatggagt	6060
aatatcactc	tataaaaagta	gggcagccaa	ttattcacag	acaaagcttt	tttttttctg	6120
tgctgcagtg	ctgtttttcg	gctgatccag	ggttacttat	tgtgggtctg	agagctgaat	6180
gattttctct	tgtgtcatgt	tggtgaagga	gatatggcca	gggggagatg	agcatgttca	6240
agaggaaacg	ttgcattttg	gtggcttggg	agaaaggtag	aacgatataca	ggtccatagt	6300
gtcactaaga	gatctgaagg	atggttttac	agaacagttg	acttggtggg	gtgcaggcctt	6360
ggctgtaaat	ggatggaagg	atggacagat	gggtggacag	agatttctgt	gcaggagatc	6420
atctcctgag	ctcgggtgctt	gacagactgc	agatccatcc	cataaccttc	tccagcatga	6480
gagcgcgggg	agctttggta	ctgttcagtc	tgctgcttgt	tgcttcctgg	gtgcacagtg	6540
gtgattttct	tactcacaca	gggcaaaaac	ctgagcagct	tcaaagtga	caggttgctc	6600
tcataggcca	ttcagttgtc	aagatgaggt	ttttggtttc	ttgttttgta	aggtgggaag	6660
aagcactgaa	ggatcagttg	cgagggcagg	ggtttagcac	tgttcagaga	agtcttattt	6720
taactcctct	catgaacaaa	aagagatgca	ggtgcagatt	ctggcaagca	tgcagtgaag	6780
gagaaagccc	tgaatttctg	atatatgtgc	aatgttgggc	acctaacatt	ccccgctgaa	6840

025CIP SEQ List ver2.txt

gcacagcagc	tccagctcca	tgcagtactc	acagctggtg	cagccctcgg	ctccagggtc	6900
tgagcagtgc	tgggactcac	gaggttccat	gtctttcaca	ctgataatgg	tccaatttct	6960
ggaatgggtg	cccatccttg	gagggtcccca	aggccaggct	ggctgcgtct	ccgagcagcc	7020
cgatctggtg	gtgagtagcc	agcccatggc	aggagttaga	gcctgatggg	ctttaaggtc	7080
ccttccaacc	taagccatcc	tacgattcta	ggaatcatga	cttgtgagtg	tgtattgcag	7140
aggcaatatt	ttaaagttat	aaatgttttc	tccccttcct	tgtttgtcaa	agttatcttg	7200
atgccttat	caatgctttt	ggagtctcca	gtcatttttc	ttacamcaaa	aagaggagga	7260
agaatgaaga	gaatcattta	atttcttgat	tgaatagtag	gattcagaaa	gctgtacgta	7320
atgccgtctc	tttgatcga	gctgtaagg	ttctcatcat	ttatcagcgt	ggtacatatc	7380
agcacttttc	catctgatgt	ggaaaaaaaa	atccttatca	tctacagtct	ctgtacctaa	7440
acatcgctca	gactctttac	caaaaaagct	ataggtttta	aaactacatc	tgctgataat	7500
ttgccttggt	ttagctcttc	ttccatatgc	tgcgtttggtg	agagggtcgt	ggatgggcct	7560
aaactctcag	ctgctgagct	tgatgggtgc	ttaagaatga	agcactcact	gctgaaactg	7620
ttttcatttc	acaggaatgt	tttagtgga	ttgtttttat	aactacatat	tcctcagata	7680
aatgaaatcc	agaaataatt	atgcaaactc	actgcatccg	ttgcacagg	ctttatctgc	7740
tagcaaagga	aataatttgg	ggatggcaaa	aacattcctt	cagacatcta	tatttaaagg	7800
aatataatcc	tgggtaccac	ccacttcac	cctcattatg	ttcacactca	gagatactca	7860
ttctcttggt	gttatcattt	gatagcggtt	tctttgggtc	tttgccacgc	tctgggctat	7920
ggctgcacgc	tctgactga	tcagcaagta	gatgcgaggg	aagcagcagt	gagaggggct	7980
gccctcagct	ggcaccacgc	cgctcagcct	aggaggggac	cttgcccttc	caccagctga	8040
ggtgcagccc	tacaagctta	cacgtgctgc	gagcagggtga	gcaaagggag	tcttcatggt	8100
gtgtttcttg	ctgcccggaa	gcaaaacttt	actttcattc	attccccttg	aagaatgagg	8160
aatgtttgga	aacggactgc	tttacgttca	atttctctct	tccctttaag	gctcagccag	8220
gggccattgc	tgaggacggc	atcggggccc	cctggacca	atctgtggca	cagatgggtt	8280
cacttacatc	agtggatgtg	ggatctgcgc	ctgtaatgtg	tccttctgaa	ggaaggaacg	8340
tgcccttcaa	gtgccagccc	cacagccccc	agcccctccc	tgtgctgctc	caattcatct	8400
cctcttcctc	cttctccctt	tgctgtttgt	gctcgggtag	aatcatgaa	gatttagaag	8460
agaaaacaaa	ataactggag	tggaaaccca	ggtgatgcag	ttcattcagc	tgtcataggt	8520
ttgtcggtgc	tataggtctg	tatcagagat	gctarcacca	ctttgctgtc	ggtgcttaac	8580
tcgggtgaac	tctccttcac	tcgcatcatt	tcggggcctt	atttacatcc	ccagcatcca	8640
tcaccctctg	ggaaaatggg	cgcactggat	ctctaattgga	agactttccc	tctttcagag	8700

025CIP SEQ List ver2.txt

cctgtgggat	gtgcagtgac	aagaaacgtg	gaggggctga	gcagcagcac	tgcccccagg	8760
gagcaggagc	ggatgccatc	ggtggcagca	tcccaaata	tgtagcagga	tgctgagcag	8820
gcagcggacg	aacggacaga	agcgatgcgt	acaccttctg	ttgacatggt	atttggcagc	8880
gatttaacac	tcgcttccta	gtcctgctat	tctccacagg	ctgcattcaa	atgaacgaag	8940
ggaagggagg	caaaaagatg	caaaatccga	gacaagcagc	agaaatatatt	cttcgctacg	9000
gaagcgtgcg	caaacaacct	tctccaacag	caccagaaga	gcacagcgta	acctttttca	9060
agaccagaaa	aggaaattca	caaagcctct	gtggatacca	gcgcgttcag	ctctcctgat	9120
agcagatttc	ttgtcagggt	gcgaatgggg	tatggtgcca	ggagggtgag	ggaccatatg	9180
atcatataca	gcacagcagt	cattgtgcat	gtattaatat	atattgagta	gcagtgttac	9240
tttgccaaag	caatagttca	gagatgagtc	ctgctgcata	cctctatctt	aaaactaact	9300
tataaatagt	aaaaccttct	cagttcagcc	acgtgctcct	ctctgtcagc	accaatggtg	9360
cttcgcctgc	acccagctgc	aaggaatcag	cccgtgatct	cattaacact	cagctctgca	9420
ggataaatta	gattgttcca	ctctcttttg	ttgttaatta	cgacggaaca	attgttcagt	9480
gctgatgggtc	ctaattgtca	gctacagaaa	acgtctccat	gcagttcctt	ctgcgccagc	9540
aaactgtcca	ggctatagca	ccgtgatgca	tgctacctct	cactccatcc	ttcttctctt	9600
tcccaccagg	gagagctgtg	tgttttcact	ctcagccact	ctgaacaata	ccaaactgct	9660
acgcactgcc	tccctcggaa	agagaatccc	cttggtgctt	ttttatttac	aggatccttc	9720
ttaaaaagca	gaccatcatt	cactgcaaac	ccagagcttc	atgcctctcc	ttccacaacc	9780
gaaaacagcc	ggcttcattt	gtctttttta	aatgctgttt	tccaggtgaa	ttttggccag	9840
cgtgttgggt	gagatccagg	agcacgtgtc	agctttctgc	tctcattgct	cctgttctgc	9900
attgcctctt	tctgggggtt	ccaagagggg	gggagacttt	gcgcggggat	gagataatgc	9960
cccttttctt	agggtggtg	ctgggcagca	gagtggctct	gggtcactgt	ggcaccaatg	10020
ggaggcacca	gtgggggtgt	gttttgtgca	ggggggaagc	attcacagaa	tggggctgat	10080
cctgaagctt	gcagtccaag	gctttgtctg	tgtacccagt	gaaatccttc	ctctgttaca	10140
taaagcccag	ataggactca	gaaatgtagt	cattccagcc	cccctcttcc	tcagatctgg	10200
agcagcactt	gtttgcagcc	agtcctcccc	aaaatgcaca	gacctcgccg	agtggagggg	10260
gatgtaaaca	gcgaagggtta	attacctcct	tgtcaaaaac	actttgtggt	ccatagatgt	10320
ttctgtcaat	cttacaaaac	agaaccgaga	ggcagcgagc	actgaagagc	gtgttcccat	10380
gctgagttaa	tgagacttgg	cagctcgctg	tgtagagatg	atccctgtgc	ttcatgggag	10440
gctgtaacct	gtctccccat	cgccttcaca	ccgcagtgtc	gtcctggaca	cctcaccctc	10500
cataagctgt	aggatgcagc	tgcccagggg	tcaagagact	tttcctaagg	ctcttaggac	10560
tcattctttgc	cgctcagtag	cggtgcagcaa	ttactcatcc	caactatact	gaatgggttt	10620

025CIP SEQ List ver2.txt

ctgccagctc	tgcttgtttg	tcaataagca	tttcttcatt	ttgcctctaa	gtttctctca	10680
gcagcaccgc	tctgggtgac	ctgagtggcc	acctggaacc	cgaggggcac	agccaccacc	10740
tccctgttgc	tgctgctcca	gggactcatg	tgctgctgga	tggggggaag	catgaagttc	10800
ctcaccacaga	cacctgggtt	gcaatggctg	cagcgtgctc	ttcttggtat	gcagattggt	10860
tccagccatt	acttgtagaa	atgtgctgtg	gaagcccttt	gtatctcttt	ctgtggccct	10920
tcagcaaaaag	ctgtgggaaa	gctctgaggc	tgctttcttg	ggtcgtggag	gaattgtatg	10980
ttccttcttt	aacaaaaatt	atccttagga	gagagcactg	tgcaagcatt	gtgcacataa	11040
aacaattcag	gttgaaaggg	ctctctggag	gtttccagcc	tgactactgc	tcgaagcaag	11100
gccaggttca	aagatggctc	aggatgctgt	gtgccttcct	gattatctgt	gccaccaatg	11160
gaggagattc	acagccactc	tgcttcccgt	gccactcatg	gagaggaata	ttcccttata	11220
ttcagataga	atgttatcct	ttagctcagc	cttccctata	accccatgag	ggagctgcag	11280
atccccatac	tctccccctt	tctgggggtga	aggccgtgtc	ccccagcccc	ccttcccacc	11340
ctgtgcccta	agcagcccgc	tggcctctgc	tggatgtgtg	cctatatgtc	aatgcctgtc	11400
cttgagctcc	agcctgggac	atttaattca	tcaccagggt	aatgtggaac	tgtgtcatct	11460
tcccctgcag	ggtacaaagt	tctgcacggg	gtcctttcgg	ttcaggaaaa	ccttcactgg	11520
tgctacctga	atcaagctct	atttaataag	ttcataagca	catggatgtg	ttttcctaga	11580
gatacgtttt	aatgggtatca	gtgattttta	tttgctttgt	tgcttacttc	aaacagtgcc	11640
tttgggcagg	aggtgagggg	cgggtctgcc	gttggtcttg	cagtgatttc	tccaggcgtg	11700
tggctcaggt	cagatagtgg	tactctgtg	gccagaagaa	ggacaaagat	ggaaattgca	11760
gattgagtca	cgtaagcag	gcatcttgga	gtgatttgag	gcagtttcat	gaaagagcta	11820
cgaccactta	ttgttgtttt	ccccttttac	aacagaagtt	ttcatcaaaa	taacgtggca	11880
aagcccagga	atgtttggga	aaagtgtagt	taaatgtttt	gtaattcatt	tgtcggagtg	11940
ctaccagcta	agaaaaaagt	cctacctttg	gtatggtagt	cctgcagaga	atacaacatc	12000
aatattagtt	tggaaaaaaa	caccaccacc	accagaaact	gtaatggaaa	atgtaaacca	12060
agaaaattcct	tgggtaagag	agaaaggatg	tcgtatactg	gccaagtcct	gcccagctgt	12120
cagcctgctg	accctctgca	gttcaggacc	atgaaacgtg	gactgtaag	acgtgtcccc	12180
tgcccttgct	tgccacaga	tctctgccct	tgtgctgact	cctgcacaca	agagcatttc	12240
cctgtagcca	aacagcgatt	agccataagc	tgcacctgac	tttgaggatt	aagagtttgc	12300
aattaagtgg	attgcagcag	gagatcagtg	gcagggttgc	agatgaaatc	cttttctagg	12360
ggtagctaag	ggctgagcaa	cctgtcctac	agcacaagcc	aaaccagcca	agggttttcc	12420
tgtgctgttc	acagaggcag	ggccagctgg	agctggagga	ggttgtgctg	ggacccttct	12480

025CIP SEQ List ver2.txt

ccctgtgctg	agaatggagt	gattttctggg	tgctgttcct	gtggcttgca	ctgagcagct	12540
caagggagat	cggtgctcct	catgcagtg	caaaactcgt	gtttgatgca	gaaagatgga	12600
tgtgcacctc	cctcctgcta	atgcagccgt	gagcttatga	aggcaatgag	ccctcagtg	12660
agcaggagct	gtagtgact	cctgtaggtg	ctagggaaaa	tctctggttc	ccagggatgc	12720
attcataagg	gcaatatatc	ttgaggctgc	gccaaatctt	tctgaaatat	tcatgctgt	12780
tcccttaatt	tatagaaaca	aacacagcag	aataattatt	ccaatgcctc	ccctcgaagg	12840
aaacccatat	ttccatgtag	aaatgtaacc	tatatacaca	cagccatgct	gcatccttca	12900
gaacgtgcca	gtgctcatct	cccatggcaa	aatactacag	gtattctcac	tatgttggac	12960
ctgtgaaagg	aaccatggta	agaaacttcg	gttaaaggta	tggctgcaaa	actactcata	13020
ccaaaacagc	agagctccag	acctcctctt	aggaaagagc	cacttggaga	gggatgggtgt	13080
gaaggctgga	ggtgagagac	agagcctgtc	ccagttttcc	tgtctctatt	ttctgaaacg	13140
tttgaggag	gaaaggacaa	ctgtactttc	aggcatagct	ggtgccctca	cgtaaataag	13200
ttccccgaac	ttctgtgtca	tttgttctta	agatgctttg	gcagaacact	ttgagtcaat	13260
tcgcttaact	gtgactaggt	ctgtaaataa	gtgctccctg	ctgataaggt	tcaagtgaca	13320
tttttagtgg	tatttgacag	catttacctt	gctttcaagt	cttctaccaa	gctcttctat	13380
acttaagcag	tgaaaccgcc	aagaaaccct	tccttttatc	aagctagtgc	taaataccat	13440
taacttcata	ggtagatag	ggtgctgcca	gcttcacctg	gcagtgggtg	gtcagttctg	13500
ctggtgacaa	agcctccctg	gcctgtgctt	ttacctagag	gtgaatatcc	aagaatgcag	13560
aactgcatgg	aaagcagagc	tgcaggcacg	atggtgctga	gccttagctg	cttcctgctg	13620
ggagatgtgg	atgcagagac	gaatgaagga	cctgtccctt	actccccctca	gcattctgtg	13680
ctatttaggg	ttctaccaga	gtccttaaga	ggtttttttt	ttttttgggtc	caaaagtctg	13740
tttgtttgg	tttgaccact	gagagcatgt	gacacttgct	tcaagctatt	aaccaagtgt	13800
ccagccaaaa	tcaattgcct	gggagacgca	gaccattacc	tggaggctcag	gacctcaata	13860
aatattacca	gcctcattgt	gccgctgaca	gattcagctg	gctgctccgt	gttcaggtcc	13920
aacagttcgg	acgccacgtt	tgtatatatt	tgcaggcagc	ctcgggggga	ccatctcagg	13980
agcagagcac	cggcagccgc	ctgcagagcc	gggcagtacc	tcaccatggc	tttgaccttt	14040
gccttactgg	tggctctcct	ggtgctgagc	tgcaagagca	gctgctctgt	gggctgcat	14100
ctgcctcaga	cccacagcct	gggcagcagg	aggaccctga	tgctgctggc	tcagatgagg	14160
agaatcagcc	tgtttagctg	cctgaaggat	aggcacgatt	ttggctttcc	tcaagaggag	14220
tttggaacc	agtttcagaa	ggctgagacc	atccctgtgc	tgcacgagat	gatccagcag	14280
atctttaacc	tgtttagcac	caaggatagc	agcgctgctt	gggatgagac	cctgctggat	14340
aagttttaca	ccgagctgta	ccagcagctg	aacgatctgg	aggcttgcgt	gatccagggc	14400

025CIP SEQ List ver2.txt

gtgggctga	ccgagacccc	tctgatgaag	gaggatagca	tcctggctgt	gaggaagtac	14460
tttcagagga	tcaccctgta	cctgaaggag	aagaagtaca	gcccctgcgc	ttgggaagtc	14520
gtgagggctg	agatcatgag	gagcttttagc	ctgagcacca	acctgcaaga	gagcttgagg	14580
tctaaggagt	aaaaagtcta	gagtcggggc	ggccggccgc	ttcgagcaga	catgataaga	14640
tacattgatg	agtttgaca	aaccacaact	agaatgcagt	gaaaaaatg	ctttatttgt	14700
gaaatttgtg	atgctattgc	tttatttgta	accattataa	gctgcaataa	acaagttaac	14760
aacaacaatt	gcattcattt	tatgtttcag	gttcaggggg	aggtgtggga	ggttttttaa	14820
agcaagtaaa	acctctacaa	atgtggtaaa	atcgataaccg	tcgacctcga	ctagagcggc	14880
cactaacata	cgctctccat	caaaacaaaa	cgaaacaaaa	caaactagca	aaataggctg	14940
tccccagtg	aagtgcaggt	gccagaacat	ttctctatcg	ataggtaccg	agctcttacg	15000
cgtgctagcc	ctcgagcagg	atctatacat	tgaatcaata	ttggcaatta	gccatattag	15060
tcattgggta	tatagcataa	atcaatattg	gctattggcc	attgcatacg	ttgtatctat	15120
atcataatat	gtacatttat	attggctcat	gtccaatatg	accgccatgt	tgacattgat	15180
tattgactag	ttattaatag	taatcaatta	cggggctcatt	agttcatagc	ccatatatgg	15240
agttccgcgt	tacataactt	acggtaaagt	gcccgcctgg	ctgaccgccc	aacgaccccc	15300
gcccattgac	gtcaataatg	acgtatgttc	ccatagtaac	gccaataggg	actttccatt	15360
gacgtcaatg	gggtggagtat	ttacggtaaa	ctgcccactt	ggcagtagat	caagtgtatc	15420
atatgccaag	tccgccccct	attgacgtca	atgacggtaa	atggcccgcc	tggcattatg	15480
cccagtagat	gaccttacgg	gactttccta	cttggcagta	catctacgta	ttagtcatcg	15540
ctattaccat	gggtgatgcg	ttttggcagt	acatcaatgg	gcgtggatag	cggtttgact	15600
cacggggatt	tccaagtctc	caccccatgt	acgtcaatgg	gagtttggtt	tggcaccaaa	15660
atcaacggga	ctttccaaaa	tgctgtaaca	actccgcccc	attgacgcaa	atgggcggta	15720
ggcgtgtacg	gtgggaggtc	tatataagca	gagctcggtt	agtgaaccgt	cagatcgctt	15780
ggagacgcca	tccacgctgt	tttgacctcc	atagaagaca	ccgggaccga	tccagcctcc	15840
cctcgaagct	cgactctagg	ggctcgagat	ctgcatctta	agtaagcttg	catgcctgca	15900
ggtcggccgc	cacgaccggt	gccgccacca	tcccctgacc	cacgcccctg	acccctcaca	15960
aggagacgac	cttccatgac	cgagtacaag	cccacgggtg	gcctcgccac	ccgcgacgac	16020
gtccccggg	ccgtacgcac	cctcgccgcc	gcgttcgccg	actacccgcg	cacgcgccac	16080
accgtcgacc	cggaccgcca	catcgagcgg	gtcaccgagc	tgcaagaact	cttcctcacg	16140
cgcgtcgggc	tcgacatcgg	caagggtgtg	gtcgcgagc	acggcgccgc	gggtggcggtc	16200
tggaccacgc	cggagagcgt	cgaagcgggg	gcggtgttcg	ccgagatcgg	cccgcgcatg	16260

025CIP SEQ List ver2.txt

gccgagttga gcggttcccc gctggccgcg cagcaacaga tggaaggcct cctggcgccg 16320
 caccggccca aggagccccg gtggttcctg gccaccgctg gcgtctcgcc cgaccaccag 16380
 ggcaagggtc tgggcagcgc cgctcgtgctc cccggagtggt aggcggccga gcgcgcccggg 16440
 gtgcccgcct tcctggagac ctccgcgccc cgcaacctcc ccttctacga gcggctcggc 16500
 ttcaccgtca ccgccgacgt cgagggtgccc gaaggaccgc gcacctggtg catgaccgcg 16560
 aagcccgggtg cctgacgccc gccccacgac ccgcagcgcc cgaccgaaag gagcgcacga 16620
 ccccatggct ccgaccgaag ccgaccggg cgccccgcc gaccccgac ccgccccga 16680
 ggcccaccga ctctagagtc ggggcggccg gccgcttcga gcagacatga taagatacat 16740
 tgatgagttt ggacaaacca caactagaat gcagtgaata aaatgcttta tttgtgaaat 16800
 ttgtgatgct attgctttat ttgtaaccat tataagctgc aataaacaag ttaacaaca 16860
 caattgcatt ctttttatgt ttcaggttca gggggagggtg tgggagggtt tttaaagcaa 16920
 gtaaaacctc tacaatatgt gtaaaatcga taaggatcaa ttcggcttca ggtaccgctg 16980
 acgatgtagg tcacggtctc gaagccgcgg tgcgggtgcc agggcggtgcc cttgggctcc 17040
 ccgggcgcgt actccacctc acccatctgg tccatcatga tgaacgggtc gaggtggcgg 17100
 tagttgatcc cggcgaacgc gcggcgccacc ggggaagccct cgccctcgaa accgctgggc 17160
 gcggtggtca cggtgagcac gggacgtgcg acggcgctcg cggtgcgga tacgcggggc 17220
 agcgtcagcg ggttctcgac ggtcacggcg ggcatgtcga cagccgaatt gatccgtcga 17280
 ccgatgccct tgagagcctt caaccagtc agctccttcc ggtgggcgcg gggcatgact 17340
 atcgtcgccg cacttatgac tgtcttcttt atcatgcaac tcgtaggaca ggtgccggca 17400
 gc 17402

<210> 9
 <211> 5172
 <212> DNA
 <213> artificial

<400> 9
 ctgcattaat gaatcggcc aacgcgggg agaggcggtt tgcgtattgg gcgctcttcc 60
 gcttcctcgc tactgactc gctgcgctcg gtcgttcggc tgcggcgagc ggtatcagct 120
 cactcaaagg cggtaatagc gttatccaca gaatcagggg ataacgcagg aaagaacatg 180
 tgagcaaaaag gccagcaaaa ggccaggaac cgtaaaaagg ccgcgttgct ggcgtttttc 240
 cataggctcc gccccctga cgagcatcac aaaaatcgac gctcaagtca gaggtggcga 300
 aacccgacag gactataaag ataccaggcg tttccccctg gaagctccct cgtgcgctct 360
 cctgttccga ccctgccgct taccggatac ctgtccgcct ttctcccttc ggggaagcgtg 420
 gcgctttctc aatgctcacg ctgtaggtat ctcatgtcgg tgtaggtcgt tcgctccaag 480

025CIP_SEQ_List_ver2.txt

ctgggctgtg tgcacgaacc ccccgttcag cccgaccgct gcgccttatc cggtaactat	540
cgtcttgagt ccaacccggt aagacacgac ttatcgccac tggcagcagc cactggtaac	600
aggattagca gagcgaggta tgtaggcggt gctacagagt tcttgaagtg gtggcctaac	660
tacggctaca ctagaaggac agtatttggg atctgcgctc tgctgaagcc agttaccttc	720
ggaaaaagag ttggtagctc ttgatccggc aaacaaacca ccgctggtag cgggtggtttt	780
tttgtttgca agcagcagat tacgcgcaga aaaaaaggat ctcaagaaga tcctttgatc	840
ttttctacgg ggtctgacgc tcagtggaaac gaaaactcac gttaagggat tttggtcatg	900
agattatcaa aaaggatctt cacctagatc cttttaaatt aaaaatgaag ttttaaataca	960
atctaaagta tatatgagta aacttgggtc gacagttacc aatgcttaat cagtgaggca	1020
cctatctcag cgatctgtct atttcgttca tccatagttg cctgactccc cgtcgtgtag	1080
ataactacga tacgggaggg cttaccatct ggccccagtg ctgcaatgat accgcgagac	1140
ccacgctcac cggctccaga ttatcagca ataaaccagc cagccggaag ggccgagcgc	1200
agaagtggtc ctgcaacttt atccgcctcc atccagtcta ttaattgttg ccgggaagct	1260
agagtaagta gttcgccagt taatagtttg cgcaacgttg ttgccattgc tacaggcatc	1320
gtggtgtcac gctcgtcggt tggtaggct tcattcagct ccggttccca acgatcaagg	1380
cgagttacat gatccccat gttgtgcaaa aaagcgggta gtccttcgg tcctccgatc	1440
gttgtcagaa gtaagttggc cgcagtggtt tcatcatggt ttatggcagc actgcataat	1500
tctcttactg tcatgccatc cgtaagatgc ttttctgtga ctggtgagta ctcaaccaag	1560
tcattctgag aatagtgtat gcggcgaccg agttgctctt gcccggcgtc aatacgggat	1620
aataccgcgc cacatagcag aactttaaaa gtgctcatca ttggaaaacg ttcttcgggg	1680
cgaaaactct caaggatctt accgctgttg agatccagtt cgatgtaacc cactcgtgca	1740
cccaactgat cttcagcatc ttttactttc accagcgttt ctgggtgagc aaaaacagga	1800
aggcaaaatg ccgcaaaaaa ggggaataagg gcgacacgga aatgttgaat actcatactc	1860
ttcctttttc aatattattg aagcatttat cagggttatt gtctcatgag cggatacata	1920
tttgaatgta tttagaaaaa taaacaaata ggggttccgc gcacatttcc ccgaaaagtg	1980
ccacctgacg tcgacggatc gggagatctc ccgatcccc atggctcgact ctcagtacaa	2040
tctgctctga tgccgcatag ttaagccagt atctgctccc tgcttggtgtg ttggagggtcg	2100
ctgagtagtg cgcgagcaaa atttaagcta caacaaggca aggcttgacc gacaattgca	2160
tgaagaatct gcttaggggt aggcgttttg cgctgcttcg cgatgtacgg gccagatata	2220
cgcgtgctag ggggtctagga tcgattctag gaattctcta gccgcgggtc agggatccccg	2280
gcgcgtatgg tgcactctca gtacaatctg ctctgatgcc gcatagttaa gccagtatct	2340
gctccctgct tgtgtgttgg aggtcgctga gtagtgcgag agcaaaattt aagctacaac	2400

025CIP SEQ List ver2.txt

aaggcaaggc	ttgaccgaca	attgcatgaa	gaatctgctt	agggttaggc	gttttgcgct	2460
gcttcgcgat	gtacgggcca	gatatacgcg	tatctgaggg	gactaggggtg	tgtttaggcg	2520
aaaagcgggg	cttcggttgt	acgcggttag	gagtccccctc	aggatatagt	agtttcgctt	2580
ttgcataggg	agggggaaat	gtagtcttat	gcaatacact	tgtagtcttg	caacatggta	2640
acgatgagtt	agcaacatgc	cttacaagga	gagaaaaagc	accgtgcatg	ccgattgggtg	2700
gaagtaagg	ggtacgatcg	tgccttatta	ggaaggcaac	agacaggtct	gacatggatt	2760
ggacgaacca	ctgaattccg	cattgcagag	ataattgtat	ttaagtgcct	agctcgatac	2820
aataaacgcc	atttgaccat	tcaccacatt	ggtgtgcacc	tccaagcttg	catgcctgca	2880
ggtaccggtc	cgggaattccc	gggtcgacga	gctcactagt	cgtaggggtcg	ccgacatgac	2940
acaaggggtt	gtgaccgggg	tggacacgta	cgcggtgct	tacgaccgtc	agtcgcgcga	3000
gcgcgagaat	tcgagcgag	caagcccagc	gacacagcgt	agcgccaacg	aagacaaggc	3060
ggccgacctt	cagcggaag	tcgagcgga	cgggggccc	ttcaggttcg	tcgggcattt	3120
cagcgaagcg	ccgggcacgt	cggcggttcg	gacggcgag	cgcccggagt	tcgaacgcat	3180
cctgaacgaa	tgccgcgcg	ggcggtcaa	catgatcatt	gtctatgacg	tgtcgcgctt	3240
ctcgcgcctg	aaggatcatg	acgcgattcc	gattgtctcg	gaattgctcg	ccctgggcgt	3300
gacgattgtt	tccactcagg	aaggcgtctt	ccggcaggga	aacgtcatgg	acctgattca	3360
cctgattatg	cggctcgacg	cgctgcacaa	agaatcttcg	ctgaagtcgg	cgaagattct	3420
cgacacgaag	aaccttcagc	gcgaattggg	cgggtacgtc	ggcgggaagg	cgccttacgg	3480
cttcgagctt	gtttcgga	cgaaggagat	cacgcgcaac	ggccgaatgg	tcaatgtcgt	3540
catcaacaag	cttcgcgact	cgaccactcc	ccttaccgga	cccttcgagt	tcgagcccga	3600
cgtaatccgg	tgggtggtgg	gtgagatcaa	gacgcacaaa	caccttcctt	tcaagccggg	3660
cagtcaagcc	gccattcacc	cgggcagcat	cacggggctt	tgtaagcgca	tggacgctga	3720
cgccgtgccg	acccggggcg	agacgattgg	gaagaagacc	gcttcaagcg	cctgggaccc	3780
ggcaaccgtt	atgcgaatcc	ttcgggaccc	gcgtattgcg	ggcttcgccg	ctgaggatgat	3840
ctacaagaag	aagccggacg	gcacgccgac	cacgaagatt	gagggttacc	gcattcagcg	3900
cgacccgatc	acgctccggc	cggtcgagct	tgattgcgga	ccgatcatcg	agcccgtga	3960
gtggtatgag	cttcaggcgt	ggttggacgg	cagggggcgc	ggcaaggggc	tttcccgggg	4020
gcaagccatt	ctgtccgcca	tggacaagct	gtactgcgag	tgtggcgccg	tcatgacttc	4080
gaagcgcggg	gaagaatcga	tcaaggactc	ttaccgctgc	cgtcgccgga	aggtggtcga	4140
cccgtccgca	cctgggcagc	acgaaggcac	gtgcaacgtc	agcatggcgg	cactcgacaa	4200
gttcgttgcg	gaacgcatct	tcaacaagat	caggcacgcc	gaaggcgacg	aagagacgtt	4260

025CIP SEQ List ver2.txt

ggcgcttctg tgggaagccg cccgacgctt cggcaagctc actgaggcgc ctgagaagag 4320
 cggcgaacgg gcgaaccttg ttgcggagcg cgccgacgcc ctgaacgccc ttgaagagct 4380
 gtacgaagac cgcgcggcag gcgcgtacga cggacccggtt ggcaggaagc acttccggaa 4440
 gcaacaggca gcgctgacgc tccggcagca aggggaggaa gagcggcttg ccgaacttga 4500
 agccgccgaa gccccgaagc ttccccttga ccaatggttc cccgaagacg ccgacgctga 4560
 cccgaccggc cctaagtcgt ggtggggggcgc gcgctcagta gacgacaagc gcgtgttcgt 4620
 cgggctcttc gtagacaaga tcgttgtcac gaagtcgact acgggcaggg ggcagggaac 4680
 gcccatcgag aagcgcgctt cgatcacgtg ggcgaagccg ccgaccgacg acgacgaaga 4740
 cgacgcccag gacggcacgg aagacgtagc ggcgtagcga gacacccgga tccctcgagg 4800
 ggccctattc tatagtgtca cctaaatgct agagctcgct gatcagcctc gactgtgcct 4860
 tctagttgcc agccatctgt tgtttgcccc tcccccgctgc ctcccttgac cctggaagg 4920
 gccactccca ctgtcctttc ctaataaaat gaggaatttg catcgattg tctgagtagg 4980
 tgtcattcta ttctgggggg tgggggtgggg caggacagca agggggagga ttgggaagac 5040
 aatagcaggc atgctgggga tgcggtgggc tctatggctt ctgaggcgga aagaaccagg 5100
 tgcccagtca tagccgaata gcctctccac ccaagcggcc ggagaacctg cgtgcaatcc 5160
 actgggggcg cg 5172

<210> 10
 <211> 6233
 <212> DNA
 <213> artificial

<400> 10
 agcgccaat acgcaaaccg cctctccccg cgcgttggcc gattcattaa tgcagctggc 60
 acgacagggt tcccgactgg aaagcgggca gtgagcgcaa cgcaattaat gtgagttagc 120
 tcactcatta ggcaccccag gctttacact ttatgcttcc ggctcgtatg ttgtgtggaa 180
 ttgtgagcgg ataacaattt cacacaggaa acagctatga ccatgattac gccaagctat 240
 ttaggtgacg cgttagaata ctcaagctat gcatcaagct tggtagcgag ctcggatcca 300
 ctagtaacgg ccgccagtgt gctggaattc gcccttggcc gcaataaaat atctttattt 360
 tcattacatc tgtgtgttgg ttttttgtgt gaatcgatag tactaacata cgctctccat 420
 caaaacaaaa cgaaacaaaa caaactagca aaataggctg tccccagtg c aagtgcagg 480
 gccagaacat ttctctatcg ataggtagc agctcttacg cgtgctagcc ctcgagcagg 540
 atctatacat tgaatcaata ttggcaatta gccatattag tcattgggta tatagcataa 600
 atcaatattg gctattggcc attgcatacg ttgtatctat atcataatat gtacatttat 660
 attggctcat gtccaatatg accgccatgt tgacattgat tattgactag ttattaatag 720

025CIP_SEQ_List_ver2.txt

taatcaatta	cggggtcatt	agttcatagc	ccatatatgg	agttccgcgt	tacataactt	780
acggtaaatg	gccccgcctgg	ctgaccgccc	aacgaccccc	gcccattgac	gtcaataatg	840
acgtatgttc	ccatagtaac	gccaataggg	actttccatt	gacgtcaatg	ggtggagtat	900
ttacggtaaa	ctgcccactt	ggcagtacat	caagtgtatc	atatgccaag	tccgccccct	960
attgacgtca	atgacggtaa	atggccccgcc	tggcattatg	cccagtacat	gaccttacgg	1020
gactttccta	cttggcagta	catctacgta	ttagtcatcg	ctattacat	ggtgatgcgg	1080
ttttggcagt	acatcaatgg	gcgtggatag	cggtttgact	cacggggatt	tccaagtctc	1140
caccccattg	acgtcaatgg	gagtttgttt	tggcaccaaa	atcaacggga	ctttccaaaa	1200
tgctgtaaca	actccgcccc	attgacgcaa	atgggcggta	ggcgtgtacg	gtgggagggtc	1260
tatataagca	gagctcgttt	agtgaaccgt	cagatcgctt	ggagacgcca	tccacgctgt	1320
tttgacctcc	atagaagaca	ccgggaccga	tccagcctcc	cctcgaagct	cgactctagg	1380
ggctcgagat	ctgcatctta	agtaagcttg	catgcctgca	ggtcggccgc	cacgaccggt	1440
gccgccacca	tcccctgacc	cacgcccctg	acccctcaca	aggagacgac	cttccatgac	1500
cgagtacaag	cccacgggtg	gcctcgccac	ccgcgacgac	gtcccccg	ccgtacgcac	1560
cctcgccgcc	gcgttcgccc	actacccgc	cacgcgccac	accgtcgacc	cggaccgcca	1620
catcgagcgg	gtcaccgagc	tgcaagaact	cttcctcacg	cgcgtcgggc	tcgacatcgg	1680
caaggtgtgg	gtcgcggacg	acggcgccgc	ggtggcggtc	tggaccacgc	cggagagcgt	1740
cgaagcgggg	gcggtgttcg	ccgagatcgg	cccgcgcatg	gccgagttga	gcggttccc	1800
gctggccgcg	cagcaacaga	tggaaaggct	cctggcgccg	caccggccca	aggagcccg	1860
gtggttcctg	gccaccgtcg	gcgtctcgcc	cgaccaccag	ggcaagggtc	tgggcagcgc	1920
cgctgtgctc	cccggagtgg	aggcgccga	gcgcgcccgg	gtgcccgcct	tcctggagac	1980
ctccgcgccc	cgcaacctcc	ccttctacga	gcggctcggc	ttcaccgtca	ccgccgacgt	2040
cgaggtgccc	gaaggaccgc	gcacctggtg	catgaccgcg	aagcccgggtg	cctgacgccc	2100
gccccacgac	ccgcagcgcc	cgaccgaaa	gagcgcacga	ccccatggct	ccgaccgaag	2160
ccgaccggg	cggccccgcc	gacccgcac	ccgccccga	ggccccaccga	ctctagagtc	2220
ggggcgggcg	gccgcttcga	gcagacatga	taagatacat	tgatgagttt	ggacaaacca	2280
caactagaat	gcagtgaaaa	aaatgcttta	tttgtgaaat	ttgtgatgct	attgctttat	2340
ttgtaaccat	tataagctgc	aataaacaag	ttaacaacaa	caattgcatt	cattttatgt	2400
ttcaggttca	gggggagggtg	tgggaggttt	tttaaagcaa	gtaaaacctc	tacaaatgtg	2460
gtaaaatcga	taaggatcaa	ttcggcttca	ggtaccgtcg	acgatgtagg	tcacggtctc	2520
gaagccgcgg	tgcggtgccc	agggcggtgc	cttgggctcc	ccgggcgcgt	actccacctc	2580
acccatctgg	tccatcatga	tgaacgggtc	gaggtggcgg	tagttgatcc	cggcgaacgc	2640

025CIP SEQ List ver2.txt

gcggcgccacc	gggaagccct	cgccctcgaa	accgctgggc	gcggtggtca	cggtgagcac	2700
gggacgtgcg	acggcgtcgg	cggtgcgga	tacgcggggc	agcgtcagcg	ggttctcgac	2760
ggtcacggcg	ggcatgtcga	cagccgaatt	gatccgtcga	ccgatgccct	tgagagcctt	2820
caacccagtc	agctccttcc	ggtgggcgcg	gggcatgact	atcgtcgccg	cacttatgac	2880
tgtcttcttt	atcatgcaac	tcgtaggaca	ggtgccggca	gcgctcttcc	gcttcctcgc	2940
tcactgactc	gctgcgctcg	gtcggttcggc	tgcggcgagc	ggtatcagct	cactcaaagg	3000
cggtaatacg	gttatccaca	gaatcagggg	ataacgcagg	aaagaacatg	aagggcgaat	3060
tctgcagata	tccatcacac	tggcgggccg	tcgagcatgc	atctagaggg	cccaattcgc	3120
cctatagtga	gtcgtattac	aattcactgg	ccgtcgtttt	acaacgctcg	gactgggaaa	3180
accctggcgt	tacccaactt	aatcgccctg	cagcacatcc	ccctttcgcc	agctggcgta	3240
atagcgaaga	ggcccgccac	gatcgccctt	cccaacagtt	gcgcagccta	tacgtacggc	3300
agtttaaggt	ttacacctat	aaaagagaga	gccgttatcg	tctgtttgtg	gatgtacaga	3360
gtgatattat	tgacacgccg	gggcgacgga	tggtgatccc	cctggccagt	gcacgtctgc	3420
tgtcagataa	agtctcccgt	gaactttacc	cggtggtgca	tatcggggat	gaaagctggc	3480
gcatgatgac	caccgatatg	gccagtgtgc	cggtctccgt	tatcggggaa	gaagtggctg	3540
atctcagcca	ccgcgaaaat	gacatcaaaa	acgccattaa	cctgatgttc	tggggaatat	3600
aaatgtcagg	catgagatta	tcaaaaagga	tcttcaccta	gatccttttc	acgtagaaag	3660
ccagtccgca	gaaacggtgc	tgacccccga	tgaatgtcag	ctactgggct	atctggacaa	3720
gggaaaacgc	aagcgcaaag	agaaagcagg	tagcttgagc	tgggcttaca	tggcgatagc	3780
tagactgggc	ggttttatgg	acagcaagcg	aaccggaatt	gccagctggg	gcgccctctg	3840
gtaaggttgg	gaagccctgc	aaagtaaact	ggatggcttt	ctcgccgcca	aggatctgat	3900
ggcgagggg	atcaagctct	gatcaagaga	caggatgagg	atcgtttcgc	atgattgaac	3960
aagatggatt	gcacgcaggt	tctccggccg	cttgggtgga	gaggctattc	ggctatgact	4020
gggcacaaca	gacaatcggc	tgctctgatg	ccgccgtggt	ccggctgtca	gcgcaggggc	4080
gcccggttct	ttttgtcaag	accgacctgt	ccggtgccct	gaatgaactg	caagacgagg	4140
cagcgcggt	atcgtggctg	gccacgacgg	gcgttccttg	cgcagctgtg	ctcgacgttg	4200
tcactgaagc	gggaagggac	tggctgctat	tgggcgaagt	gccggggcag	gatctcctgt	4260
catctcacct	tgctcctgcc	gagaaagtat	ccatcatggc	tgatgcaatg	cggcggctgc	4320
atacgcttga	tccggctacc	tgcccattcg	accaccaagc	gaaacatcgc	atcgagcgag	4380
cacgtactcg	gatggaagcc	ggtcttgtcg	atcaggatga	tctggacgaa	gagcatcagg	4440
ggctcgcgcc	agccgaactg	ttcgccaggc	tcaaggcgag	catgcccgcg	ggcgaggatc	4500

025CIP SEQ List ver2.txt

tcgtcgtgac ccatggcgat gcctgcttgc cgaatatcat ggtggaaaat ggccgctttt	4560
ctggattcat cgactgtggc cggctgggtg tggcggaccg ctatcaggac atagcgttgg	4620
ctacccgtga tattgctgaa gagcttggcg gcgaatgggc tgaccgcttc ctcgtgcttt	4680
acggtatcgc cgctcccgat tcgcagcgca tcgccttcta tcgccttctt gacgagttct	4740
tctgaattat taacgcttac aatttcctga tgcggtatth tctccttacg catctgtgcg	4800
gtatttcaca ccgcatacag gtggcacttt tcggggaaaat gtgcgcggaa cccctatttg	4860
tttatttttc taaatacatt caaatatgta tccgctcatg agacaataac cctgataaat	4920
gcttcaataa tagcacgtga ggagggccac catggccaag ttgaccagtg ccgttccggt	4980
gctcaccgcy cgcgacgtcg ccggagcggg cgagttcttg accgaccggc tcgggttctc	5040
ccgggacttc gtggaggacg acttcgccgg tgtggtccgg gacgacgtga ccctgttcat	5100
cagcgcggtc caggaccagg tggtgccgga caacaccctg gcctgggtgt ggggtgcgcy	5160
cctggacgag ctgtacgccg agtggtcgga ggtcgtgtcc acgaacttcc gggacgcctc	5220
cgggccggcc atgaccgaga tcggcgagca gccgtggggg cgggagttcg ccctgcgcy	5280
cccggccggc aactgcgtgc acttcgtggc cgaggagcag gactgacacg tgctaaaact	5340
tcatttttaa tttaaaagga tctaggtgaa gatccttttt gataatctca tgaccaaact	5400
cccttaacgt gagttttcgt tccactgagc gtcagacccc gtagaaaaga tcaaaggatc	5460
ttcttgagat cttttttttc tgcgcgtaat ctgctgcttg caaacaacaa aaccaccgct	5520
accagcggtg gtttggttgc cggatcaaga gctaccaact ctttttccga aggtaactgg	5580
cttcagcaga gcgcagatac caaatactgt ccttctagt tagccgtagt taggccacca	5640
cttcaagaac tctgtagcac cgcctacata cctcgtctg ctaatcctgt taccagtggc	5700
tgctgccagt ggcgataagt cgtgtcttac cgggttggac tcaagacgat agttaccgga	5760
taaggcgag cggtcgggct gaacgggggg ttcgtgcaca cagcccagct tggagcgaac	5820
gacctacacc gaactgagat acctacagcg tgagctatga gaaagcgcca cgcttcccga	5880
aggagaaaag gcggacaggt atccggtaag cggcagggtc ggaacaggag agcgcacgag	5940
ggagcttcca gggggaaacg cctgggtatct ttatagtcct gtcgggtttc gccacctctg	6000
acttgagcgt cgatttttgt gatgctcgtc agggggggcg agcctatgga aaaacgccag	6060
caacgcggcc tttttacggt tcctgggctt ttgctggcct tttgctcaca tgttctttcc	6120
tgcgttatcc cctgattctg tggataaccg tattaccgcc tttgagttag ctgataccgc	6180
tcgccgcagc cgaacgaccg agcgagcgga gtcagttagc gaggaagcgg aag	6233

<210> 11
 <211> 234
 <212> DNA
 <213> artificial

025CIP SEQ List ver2.txt

<400> 11
gactagtact gacggacaca ccgaagcccc ggcggcaacc ctcagcggat gccccggggc 60
ttcacgtttt cccaggtcag aagcgggtttt cgggagtagt gcccactg gggtaacctt 120
tgagttctct cagttggggg cgtaggggtcg ccgacatgac acaaggggtt gtgaccgggg 180
tggacacgta cgcgggtgct tacgaccgtc agtcgcgcga gcgcgactag taca 234

<210> 12
<211> 26
<212> DNA
<213> artificial

<400> 12
taccgtcgac gatgtaggtc acggtc 26

<210> 13
<211> 11
<212> PRT
<213> SV40

<400> 13
Cys Gly Gly Pro Lys Lys Lys Arg Lys Val Gly
1 5 10